**California High-Speed Rail Authority**

**RFP No.: HSR 14-32**

# Request for Proposals for Design-Build Services for Construction Package 4

# Reference Material, Part B.4 Supplemental Utility Information

**Note: Southern limit of CP4 ends just north of Poplar Ave, at approximately station WS1 5880+00, even though this document shows the limit just north of 7th Standard Road. Work south of the contract limit of WS1 5880+00 should not be considered as part of the contract**

RFP No.: HSR 14-32 - 08/07/2015

1101 Central Avenue, P.O. Box 8043, Wasco, California 93280-0877

Telephone: (661) 758-5113 Bakersfield: (661) 327-7144
Facsimile: (661) 758-3219 Email: mail@semitropic.com

November 25, 2014

Mr. Thomas Grau (Via E-mail)
URS/HMM/ARUP Joint Venture
2870 Gateway Oaks Drive, Suite 150
Sacramento, California 95833

Subject: California High-Speed Rail Project
Contract No. HSR 13-17
RE: HSR-FB-CP 4-Composite Utility Plans-SWSD

Dear Mr. Grau:

In August 2014, the Semitropic Water Storage District ("District") received the Composite Utility Plans for the California High-Speed Rail Project (the Plans), Fresno to Bakersfield Contract Package 4, along with your request for this District's review of each of the drawings. The Plans are understood to be at the 15% level of design and are intended to identify and depict potential conflicts between the proposed rail alignment and the District's existing "pipeline" facilities. This letter is to transmit the District's comments on the 15% design Plans for the "pipeline" conflicts. It is understood that conflicts with District "canals" will be covered on other HSRA drawings that the Authority will issue at a later date.

Review of the Plans consisted of comparing the maps and figures identifying the potential conflicts between District facilities and the proposed rail alignment which the District submitted to the High-Speed Rail Authority (HSRA) in June 2014. Upon review of each drawing and the Utility Information table on each sheet, corrections have been made to address deficiencies which were identified. In particular, while the Plans captured conflicts with existing pipelines, they did not address the facilities associated with the pipelines, such as wells, turnouts, and well connections, all of which would be impacted by the proposed rail alignment. Accordingly, these facilities have been identified on the marked up plans.

Missing facilities and incorrect information have been identified by the District in red on each drawing. Additionally, conflicts with future facilities (reference Figure 7 of the June submittal) and operational conflicts (reference Figure 8A and 8B of the June submittal) have not been reflected in the Plans reviewed. Such conflicts have a potential for impacting potential relocation of project facilities, not identified on the 15% design plans. We anticipate that these corrections and the missing information will be noted and addressed in forthcoming design plans.

If you have any questions or require anything else, please call me (at 661-758-5113) or Ms. Isela Medina (at 661-327-7601).

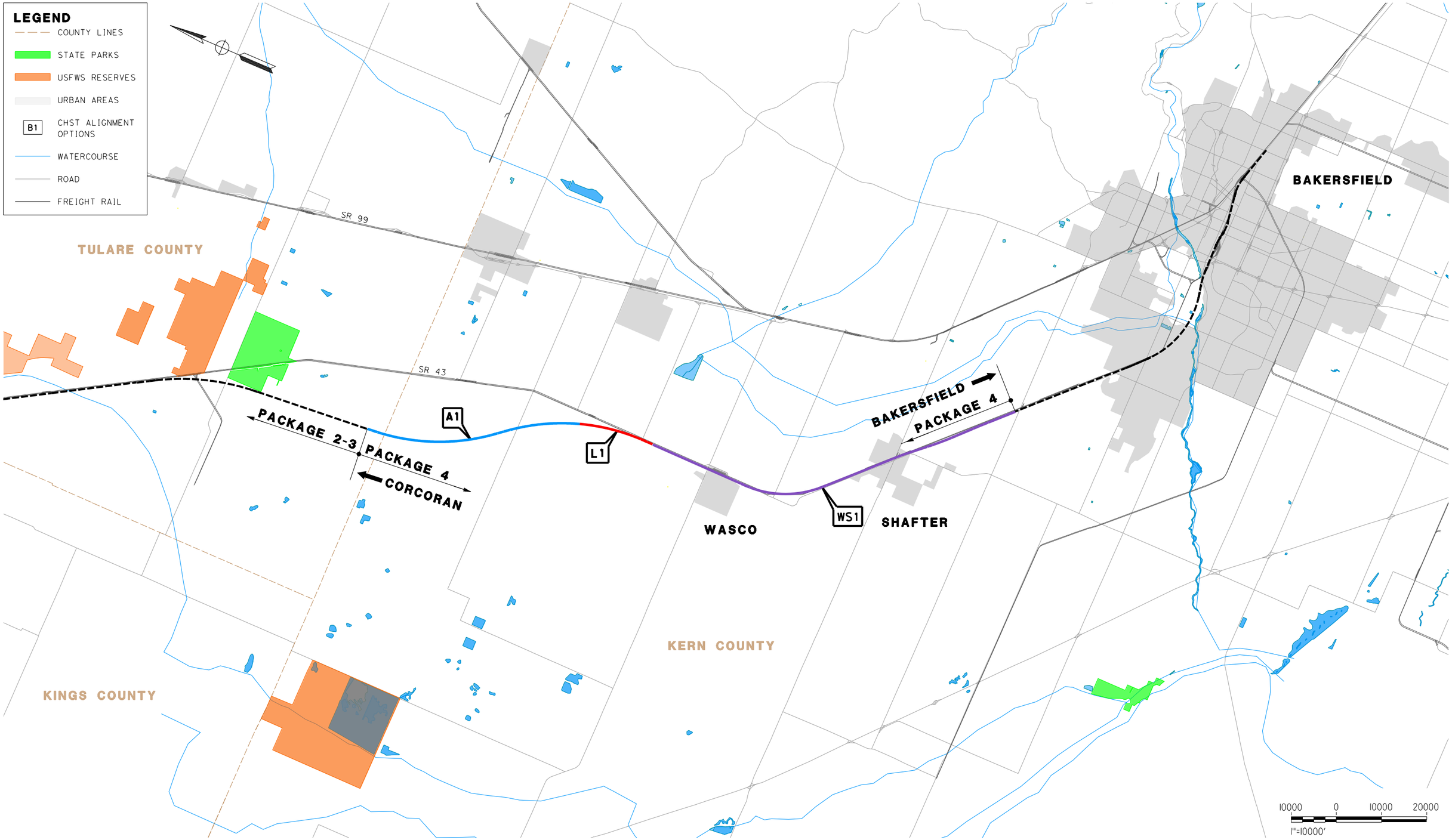
Sincerely,

JASON GIANQUINTO
General Manager

Enclosure



RFP No.: HSR 14-32 - 08/07/2015

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IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

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URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

PACKAGE 4
UTILITIES
COMPOSITE UTILITY PLAN
ALIGNMENT LOCATION MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-B0002
SCALE AS SHOWN
SHEET NO. 1 OF 163

RFP No.: HSR 14-32 - 08/07/2015

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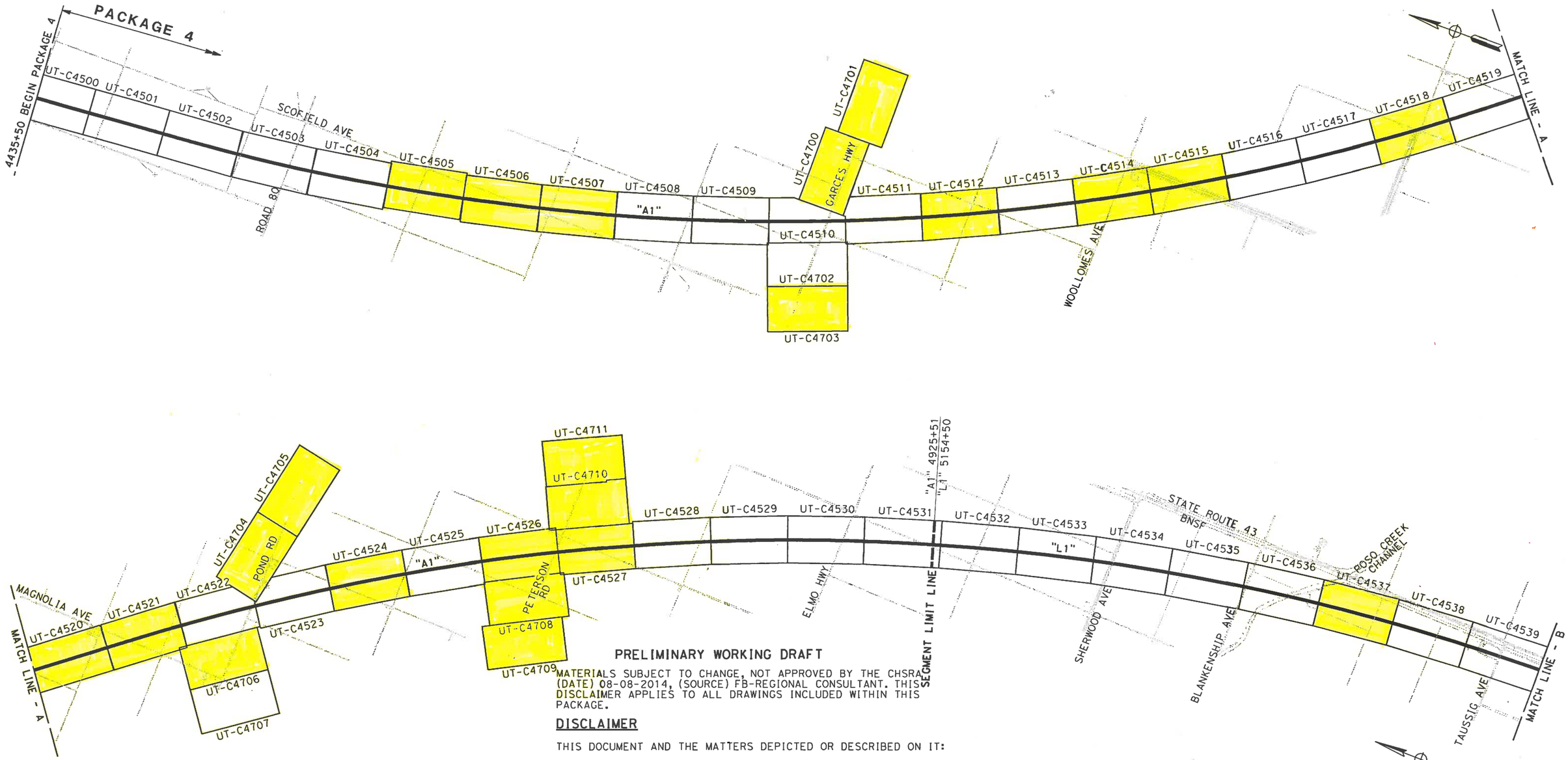


## PRELIMINARY WORKING DRAFT

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4
UTILITIES
COMPOSITE UTILITY PLAN
KEY MAP (SHEET 1 OF 3)

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-B0029
SCALE AS SHOWN
SHEET NO. 6 OF 163

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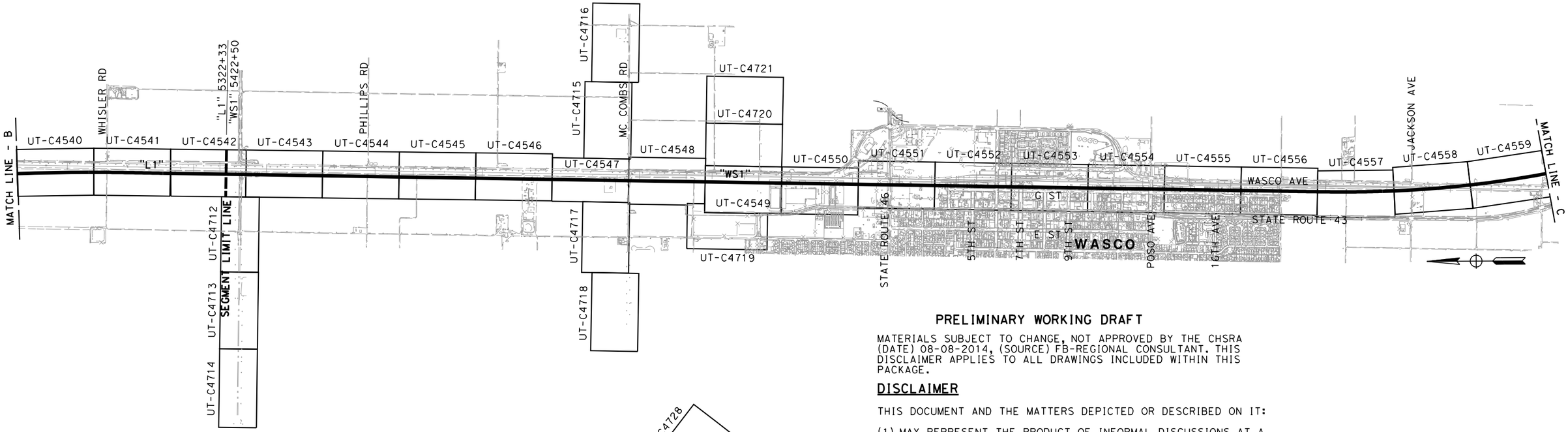


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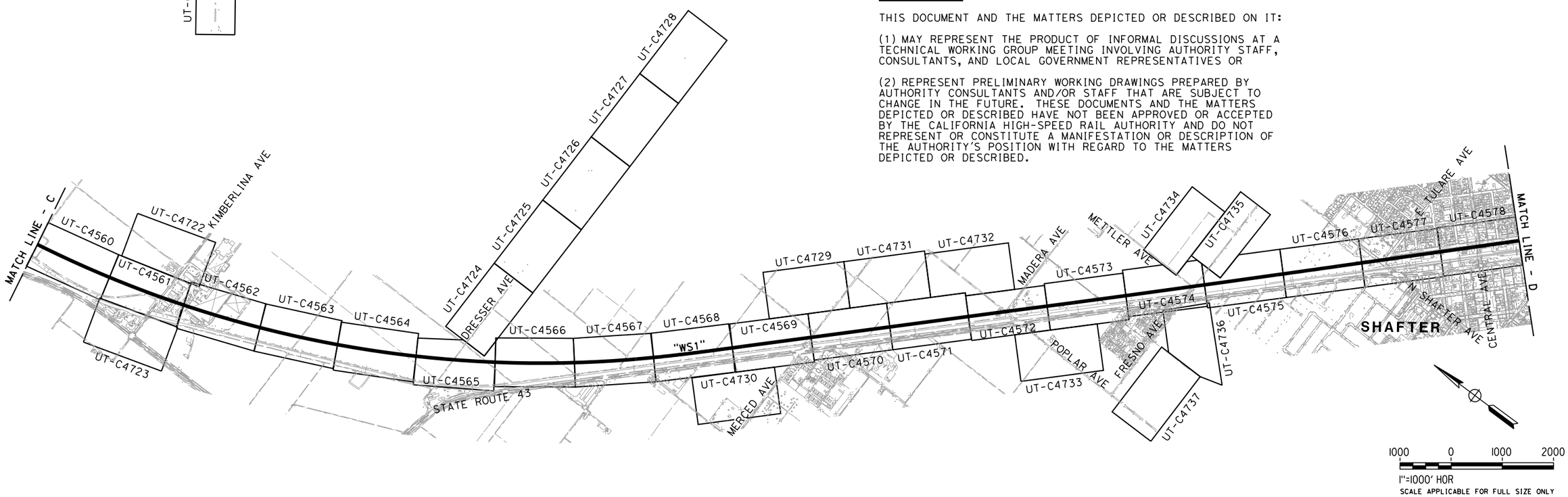


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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4
UTILITIES
COMPOSITE UTILITY PLAN
KEY MAP (SHEET 2 OF 3)

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-B0030
SCALE AS SHOWN
SHEET NO. 7 OF 163

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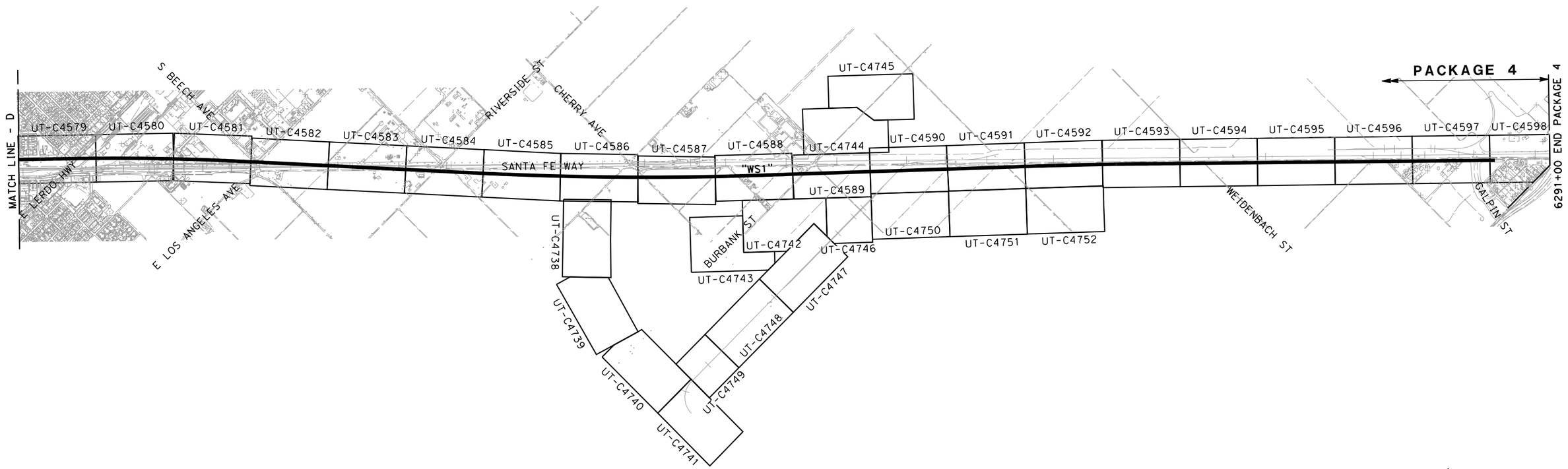


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1"=1000' HOR

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4
UTILITIES
COMPOSITE UTILITY PLAN
KEY MAP (SHEET 3 OF 3)

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-B0031
SCALE AS SHOWN
SHEET NO. 8 OF 163

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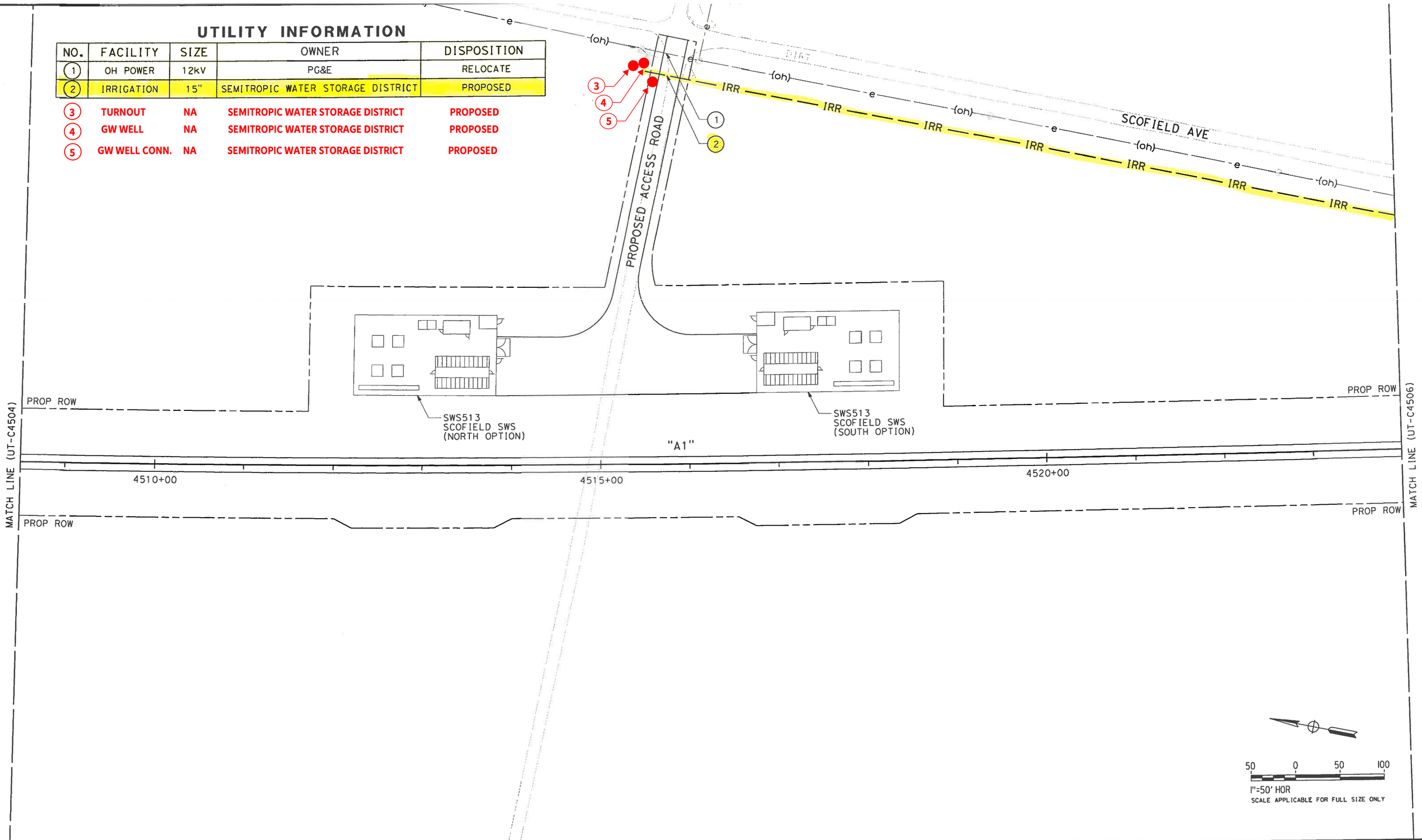
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | IRRIGATION | 15" | SEMITROPIC WATER STORAGE DISTRICT | PROPOSED |
| 3 | TURNOUT | NA | SEMITROPIC WATER STORAGE DISTRICT | PROPOSED |
| 4 | GW WELL | NA | SEMITROPIC WATER STORAGE DISTRICT | PROPOSED |
| 5 | GW WELL CONN. | NA | SEMITROPIC WATER STORAGE DISTRICT | PROPOSED |

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4508+50 TO 4524+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4505
SCALE AS SHOWN
SHEET NO. 14 OF 163

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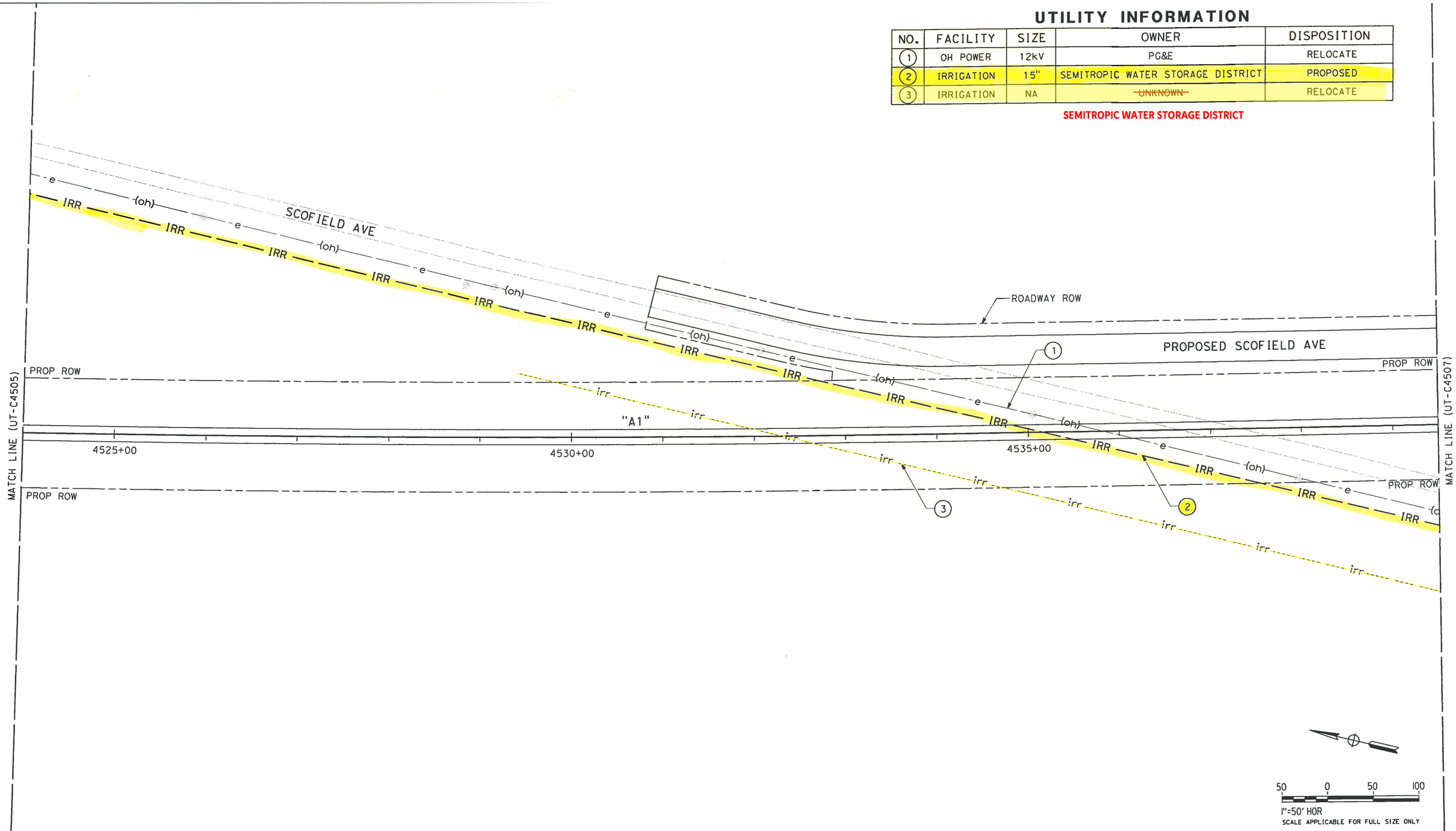
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | IRRIGATION | 15" | SEMITROPIC WATER STORAGE DISTRICT | PROPOSED |
| 3 | IRRIGATION | NA | ~~UNKNOWN~~ | RELOCATE |

SEMITROPIC WATER STORAGE DISTRICT

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4524+00 TO 4539+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4506
SCALE AS SHOWN
SHEET NO. 15 OF 163

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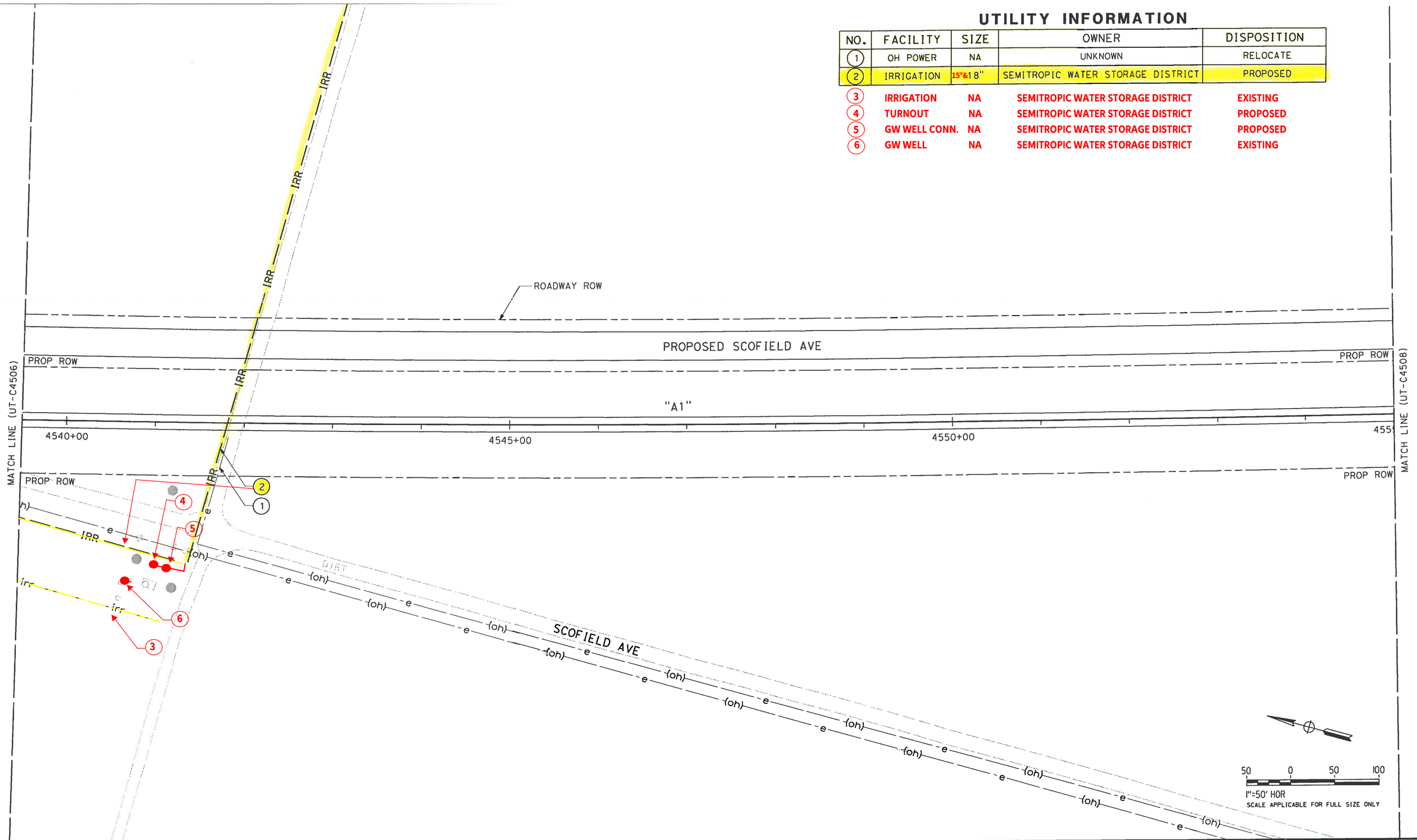
RFP No.: HSR 14-32 - 08/07/2015

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | NA | UNKNOWN | RELOCATE |
| 2 | IRRIGATION | 15"&18" | SEMITROPIC WATER STORAGE DISTRICT | PROPOSED |
| 3 | IRRIGATION | NA | SEMITROPIC WATER STORAGE DISTRICT | EXISTING |
| 4 | TURNOUT | NA | SEMITROPIC WATER STORAGE DISTRICT | PROPOSED |
| 5 | GW WELL CONN. | NA | SEMITROPIC WATER STORAGE DISTRICT | PROPOSED |
| 6 | GW WELL | NA | SEMITROPIC WATER STORAGE DISTRICT | EXISTING |

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4539+50 TO 4555+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4507
SCALE AS SHOWN
SHEET NO. 16 OF 163

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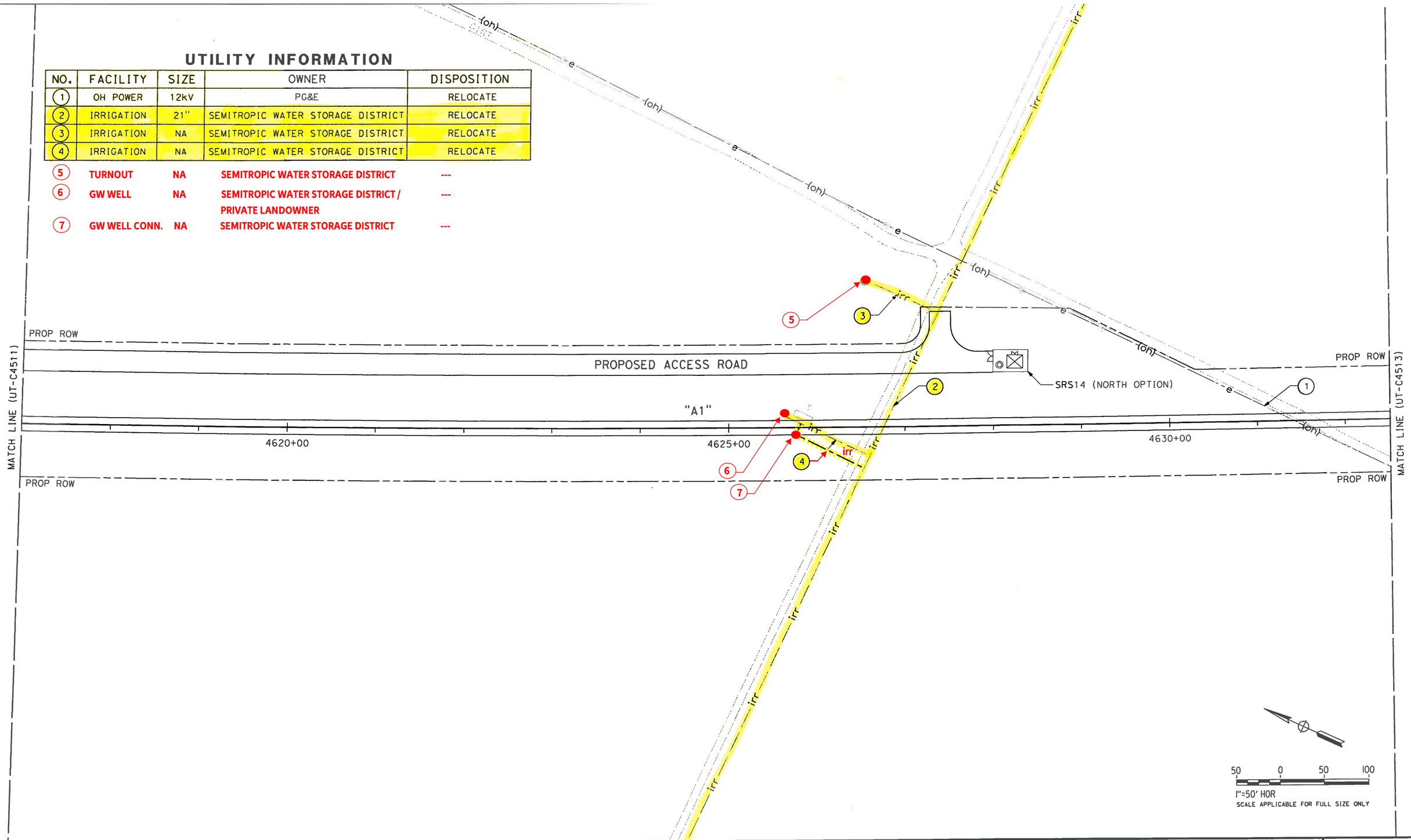
RFP No.: HSR 14-32 - 08/07/2015

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | IRRIGATION | 21" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 3 | IRRIGATION | NA | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 4 | IRRIGATION | NA | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 5 | TURNOUT | NA | SEMITROPIC WATER STORAGE DISTRICT | --- |
| 6 | GW WELL | NA | SEMITROPIC WATER STORAGE DISTRICT / PRIVATE LANDOWNER | --- |
| 7 | GW WELL CONN. | NA | SEMITROPIC WATER STORAGE DISTRICT | --- |

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4617+00 TO 4632+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4512
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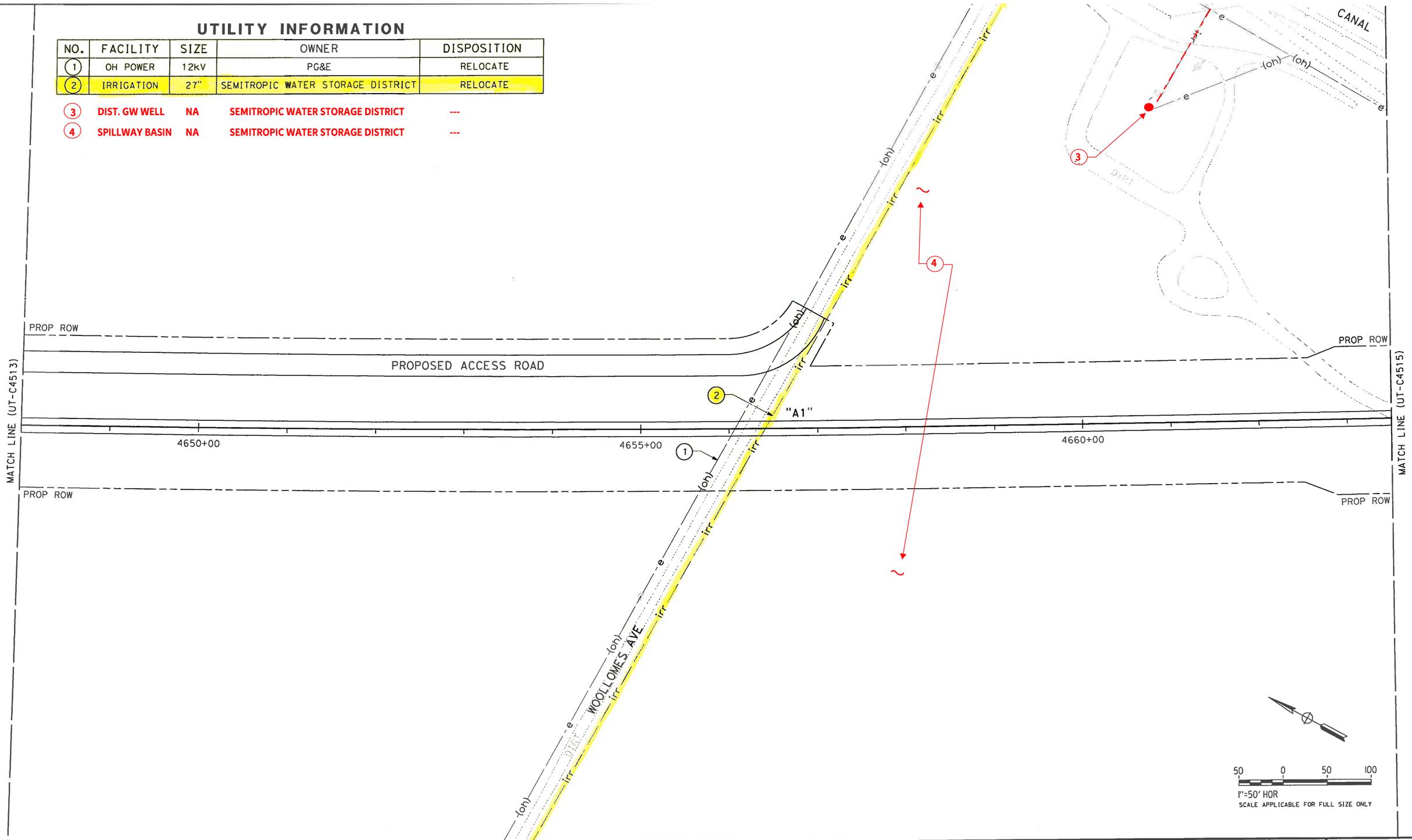
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | IRRIGATION | 27" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 3 | DIST. GW WELL | NA | SEMITROPIC WATER STORAGE DISTRICT | --- |
| 4 | SPILLWAY BASIN | NA | SEMITROPIC WATER STORAGE DISTRICT | --- |

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4648+00 TO 4663+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4514
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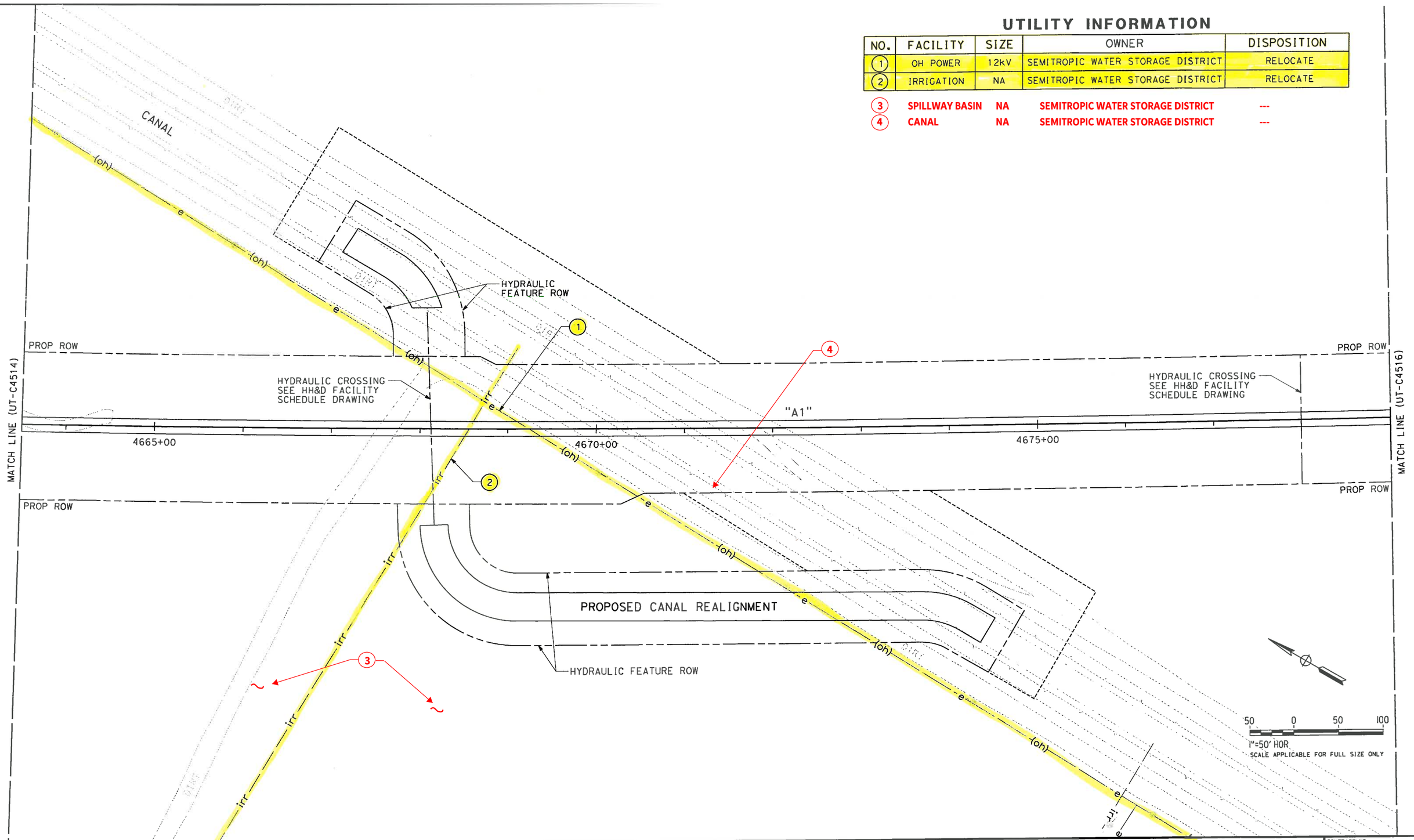
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 2 | IRRIGATION | NA | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 3 | SPILLWAY BASIN | NA | SEMITROPIC WATER STORAGE DISTRICT | --- |
| 4 | CANAL | NA | SEMITROPIC WATER STORAGE DISTRICT | --- |

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4663+50 TO 4679+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4515
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SHEET NO. 24 OF 163

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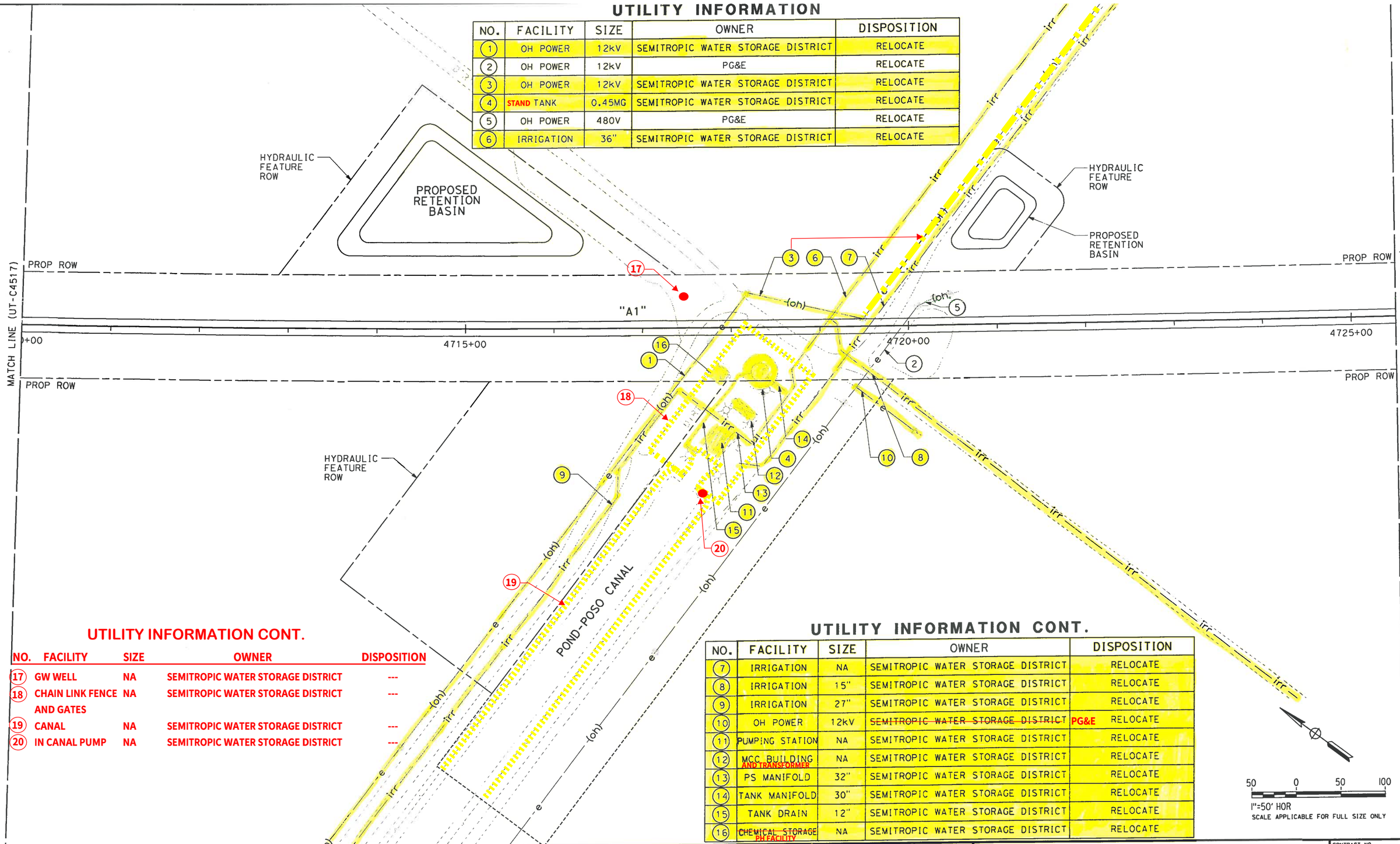
RFP No.: HSR 14-32 - 08/07/2015

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 2 | OH POWER | 12kV | PG&E | RELOCATE |
| 3 | OH POWER | 12kV | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 4 | STAND TANK | 0.45MG | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 5 | OH POWER | 480V | PG&E | RELOCATE |
| 6 | IRRIGATION | 36" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |




## UTILITY INFORMATION CONT.

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 17 | GW WELL | NA | SEMITROPIC WATER STORAGE DISTRICT | --- |
| 18 | CHAIN LINK FENCE AND GATES | NA | SEMITROPIC WATER STORAGE DISTRICT | --- |
| 19 | CANAL | NA | SEMITROPIC WATER STORAGE DISTRICT | --- |
| 20 | IN CANAL PUMP | NA | SEMITROPIC WATER STORAGE DISTRICT | --- |

## UTILITY INFORMATION CONT.

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 7 | IRRIGATION | NA | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 8 | IRRIGATION | 15" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 9 | IRRIGATION | 27" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 10 | OH POWER | 12kV | ~~SEMITROPIC WATER STORAGE DISTRICT~~ PG&E | RELOCATE |
| 11 | PUMPING STATION | NA | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 12 | MCC BUILDING AND TRANSFORMER | NA | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 13 | PS MANIFOLD | 32" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 14 | TANK MANIFOLD | 30" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 15 | TANK DRAIN | 12" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 16 | ~~CHEMICAL STORAGE~~ PH FACILITY | NA | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4710+00 TO 4725+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4518
SCALE AS SHOWN
SHEET NO. 27 OF 163

RFP No.: HSR 14-32 - 08/07/2015

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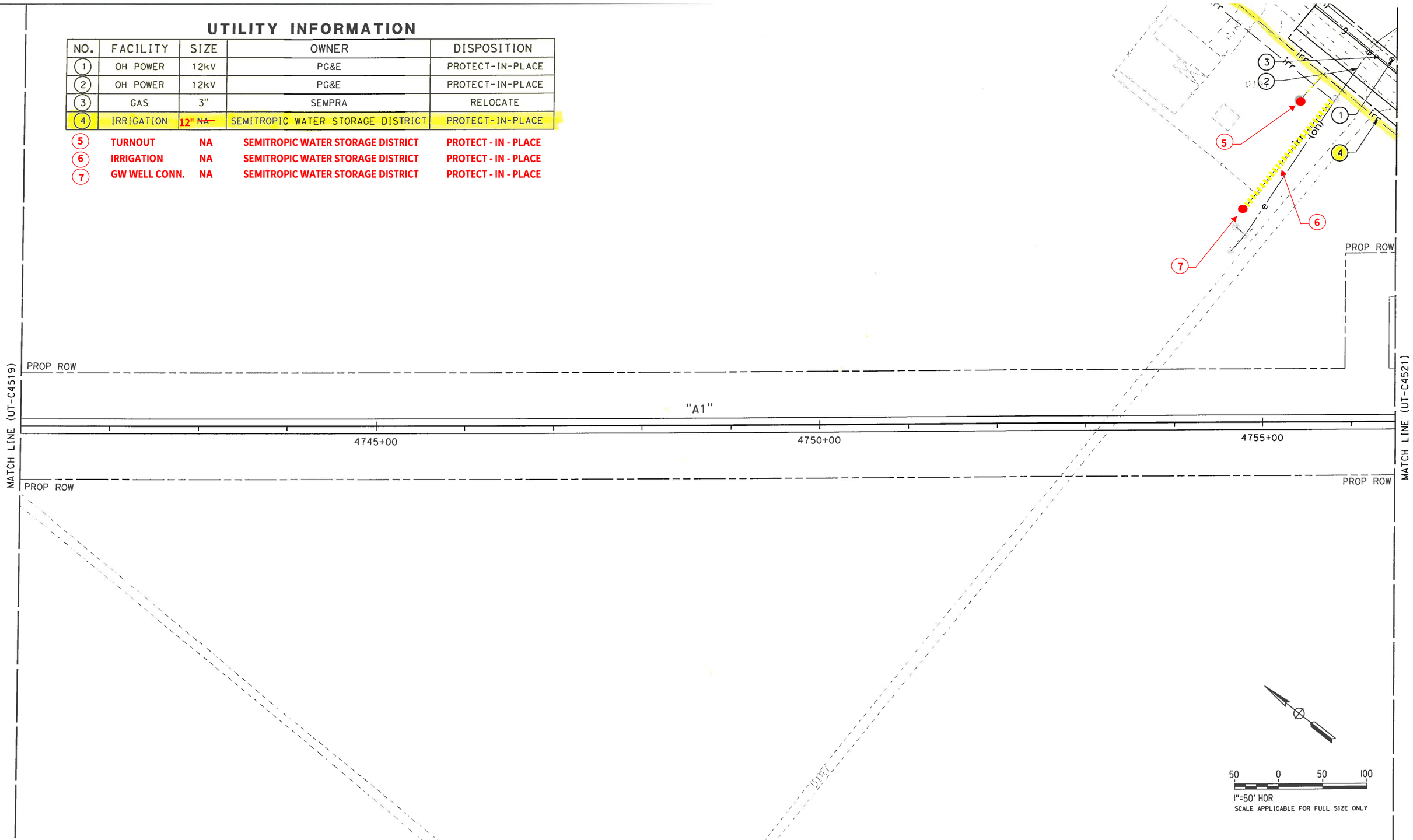
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | PROTECT-IN-PLACE |
| 2 | OH POWER | 12kV | PG&E | PROTECT-IN-PLACE |
| 3 | GAS | 3" | SEMPRA | RELOCATE |
| 4 | IRRIGATION | 12" ~~NA~~ | SEMITROPIC WATER STORAGE DISTRICT | PROTECT-IN-PLACE |
| 5 | TURNOUT | NA | SEMITROPIC WATER STORAGE DISTRICT | PROTECT - IN - PLACE |
| 6 | IRRIGATION | NA | SEMITROPIC WATER STORAGE DISTRICT | PROTECT - IN - PLACE |
| 7 | GW WELL CONN. | NA | SEMITROPIC WATER STORAGE DISTRICT | PROTECT - IN - PLACE |




| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4741+00 TO 4756+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4520
SCALE AS SHOWN
SHEET NO. 29 OF 163

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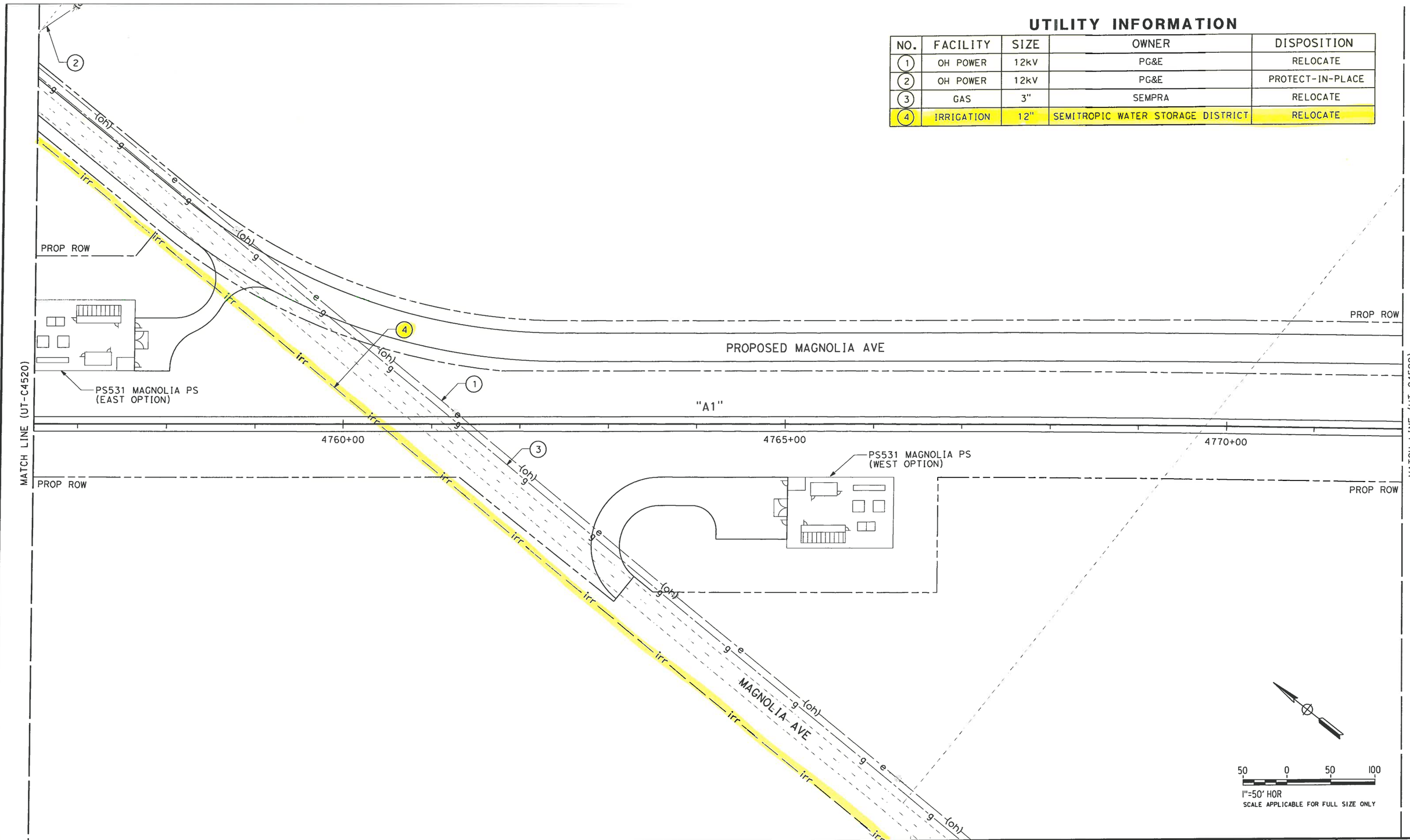
RFP No.: HSR 14-32 - 08/07/2015

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | OH POWER | 12kV | PG&E | PROTECT-IN-PLACE |
| 3 | GAS | 3" | SEMPRA | RELOCATE |
| 4 | IRRIGATION | 12" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |




| REV | DATE | BY | CHK | APP | DESCRIPTION |
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IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4756+50 TO 4772+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4521
SCALE AS SHOWN
SHEET NO. 30 OF 163

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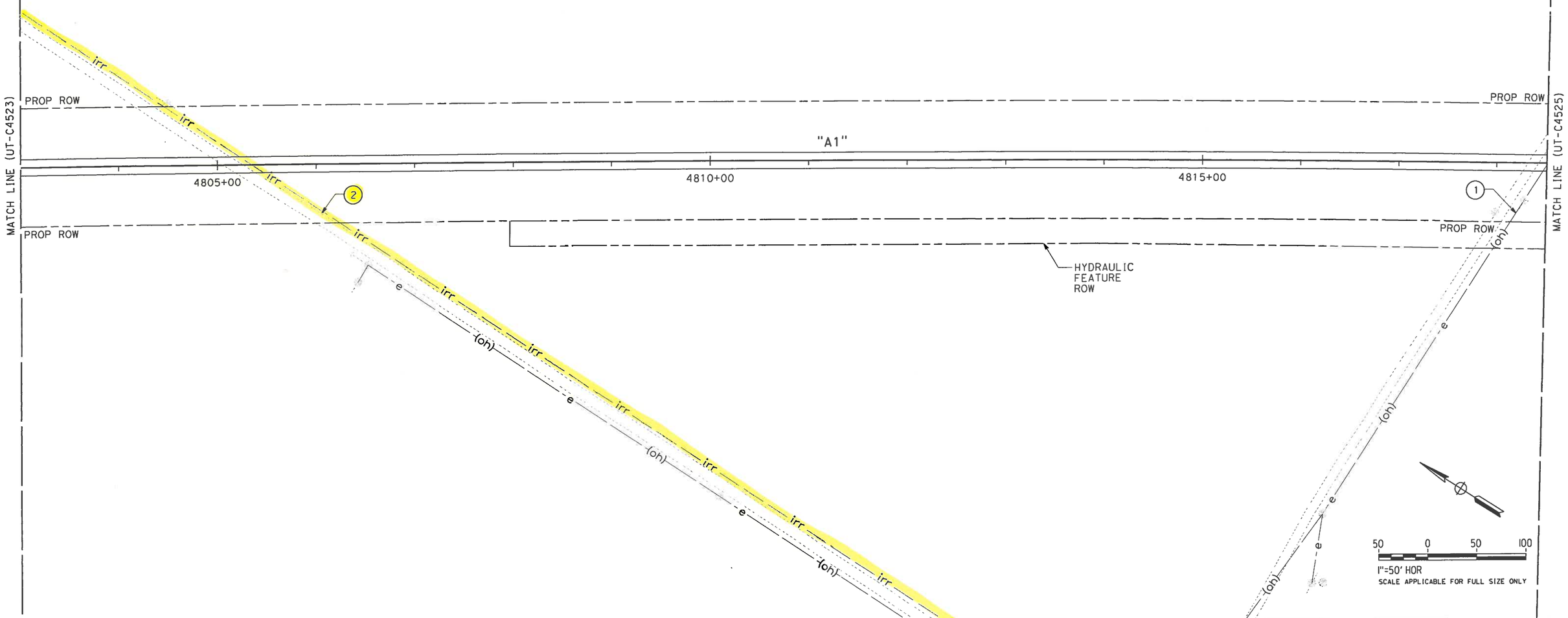
RFP No.: HSR 14-32 - 08/07/2015

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | IRRIGATION | 18" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |




| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

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CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4803+00 TO 4818+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4524
SCALE AS SHOWN
SHEET NO. 33 OF 163

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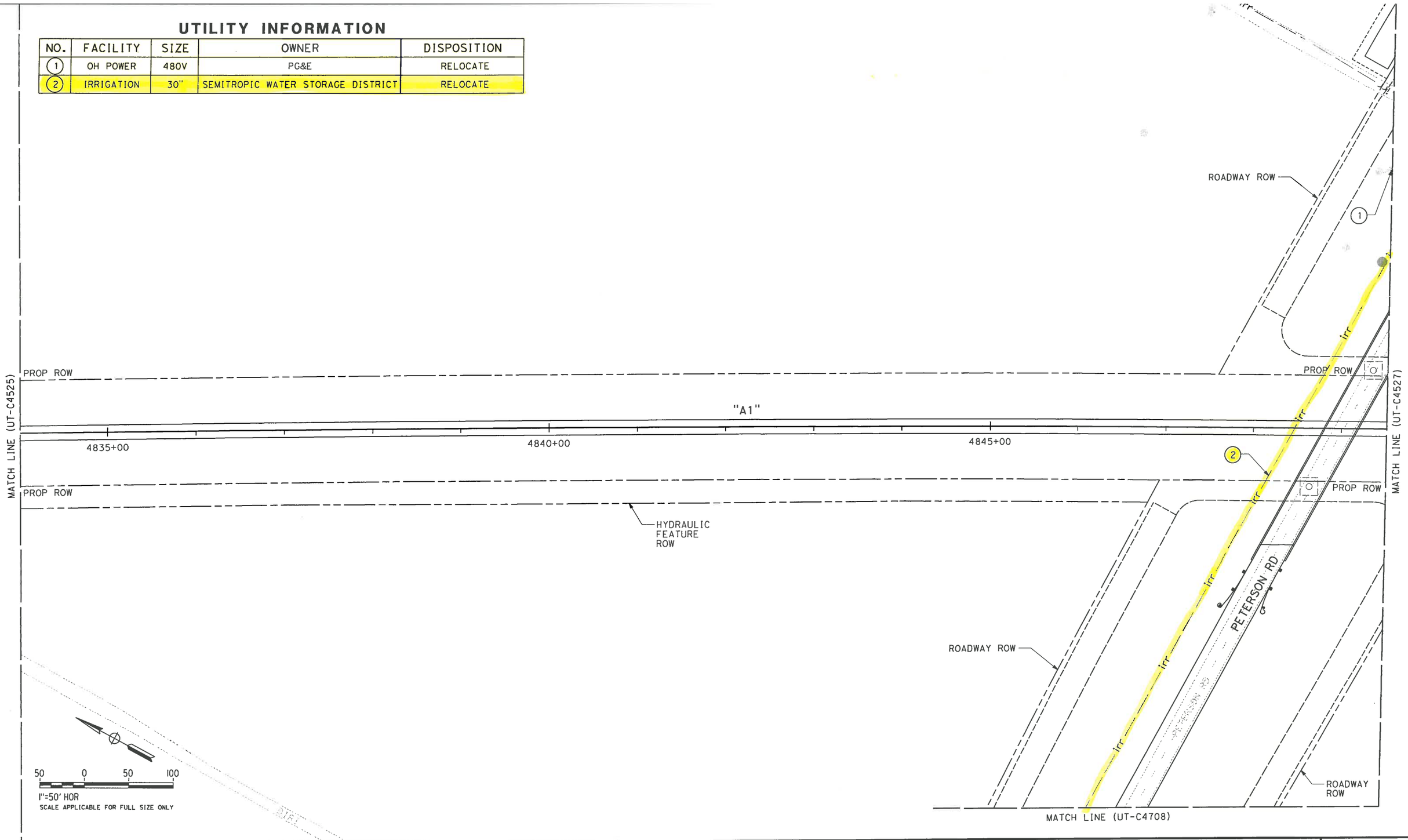
RFP No.: HSR 14-32 - 08/07/2015

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 480V | PG&E | RELOCATE |
| 2 | IRRIGATION | 30" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |




| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY T. RAMIL
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IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4834+00 TO 4849+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4526
SCALE AS SHOWN
SHEET NO. 35 OF 163

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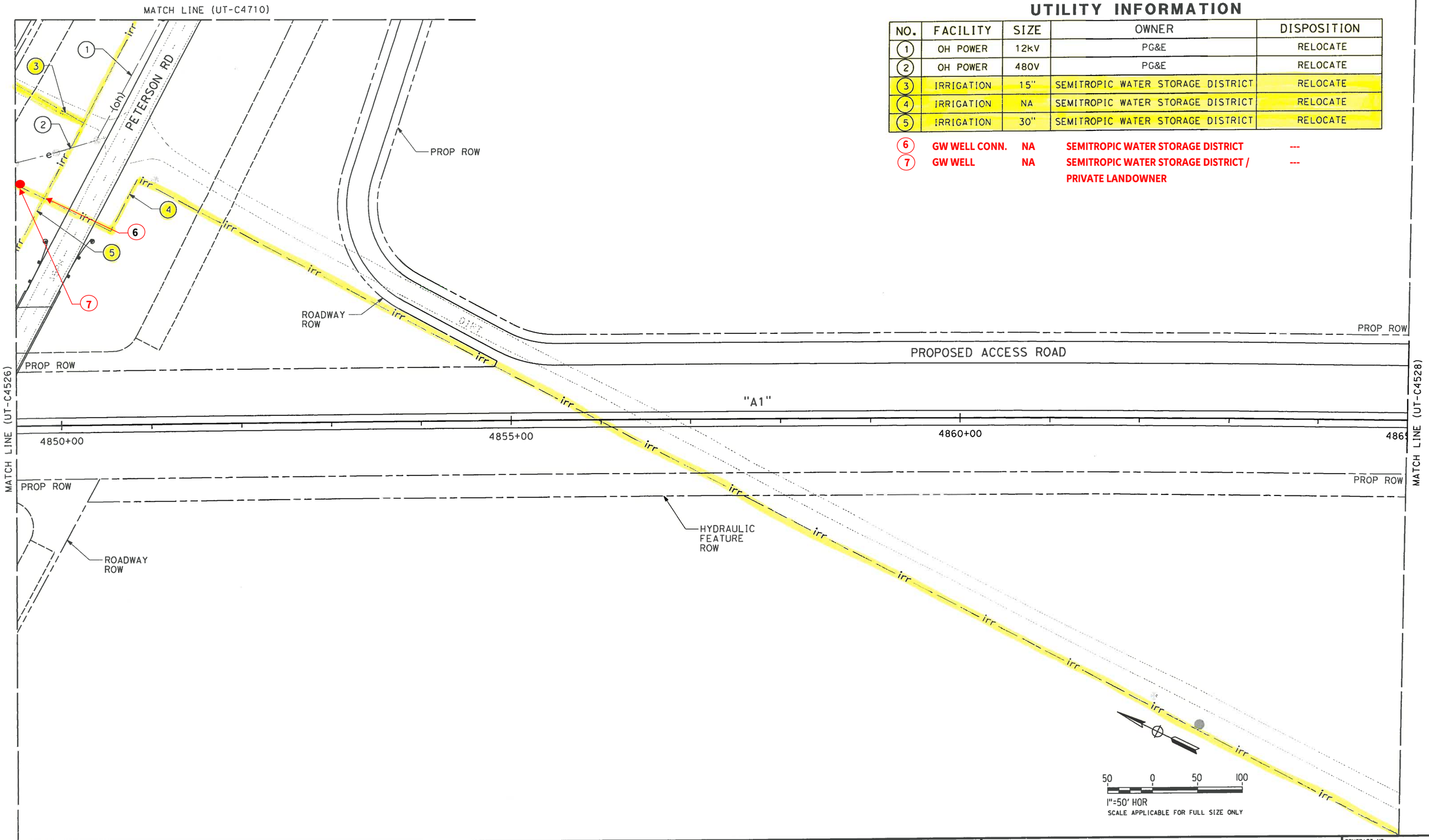
RFP No.: HSR 14-32 - 08/07/2015




## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | OH POWER | 480V | PG&E | RELOCATE |
| 3 | IRRIGATION | 15" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 4 | IRRIGATION | NA | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 5 | IRRIGATION | 30" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 6 | GW WELL CONN. | NA | SEMITROPIC WATER STORAGE DISTRICT | --- |
| 7 | GW WELL | NA | SEMITROPIC WATER STORAGE DISTRICT / PRIVATE LANDOWNER | --- |

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|---|---|---|---|---|---|

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DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

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URS | HMM | ARUP
CALIFORNIA HIGH-SPEED RAIL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4849+50 TO 4865+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4527
SCALE AS SHOWN
SHEET NO. 36 OF 163

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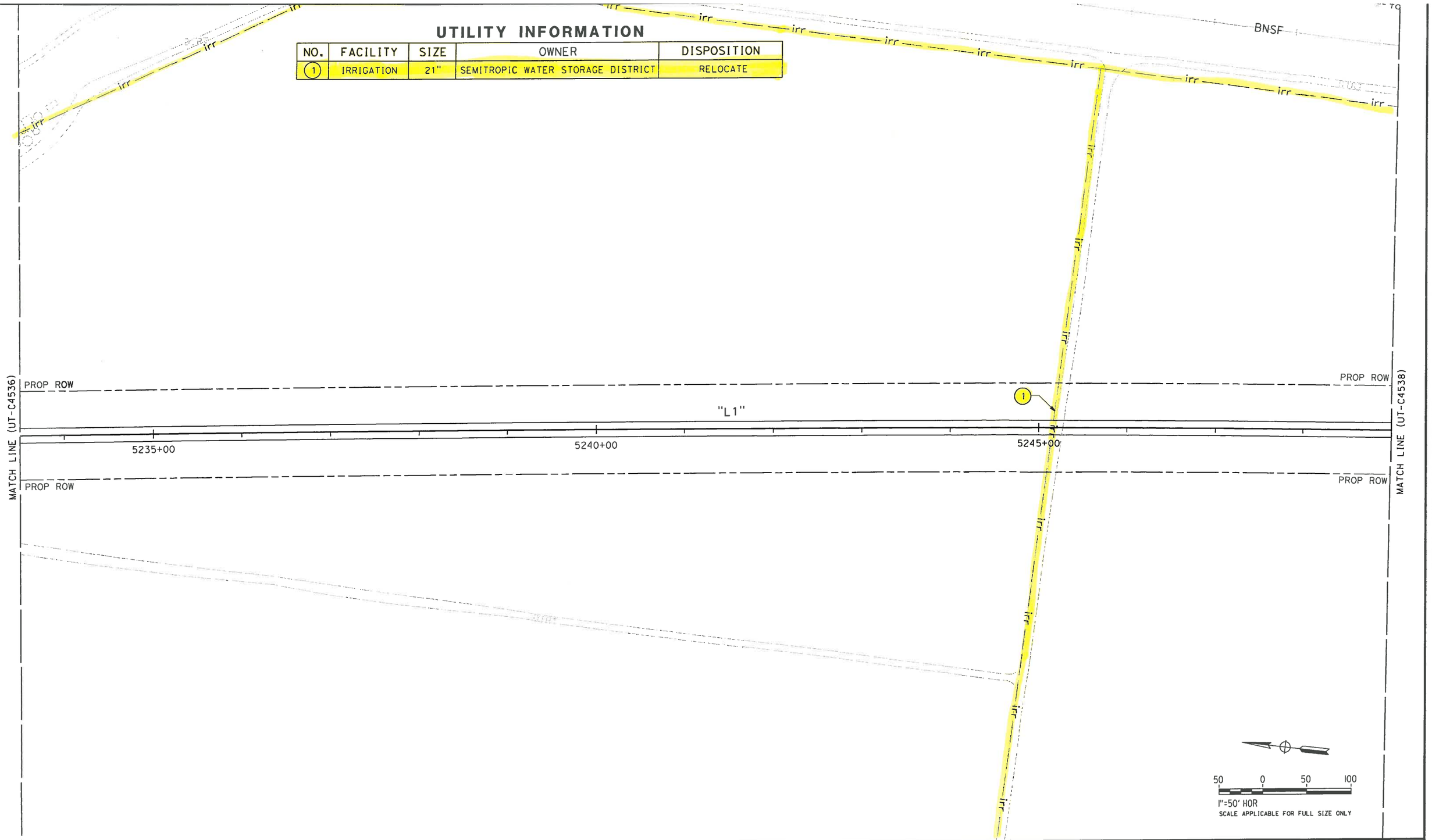
RFP No.: HSR 14-32 - 08/07/2015

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | IRRIGATION | 21" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |

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|---|---|---|---|---|---|

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DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

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URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT L1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5233+50 TO 5249+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4537
SCALE AS SHOWN
SHEET NO. 46 OF 163

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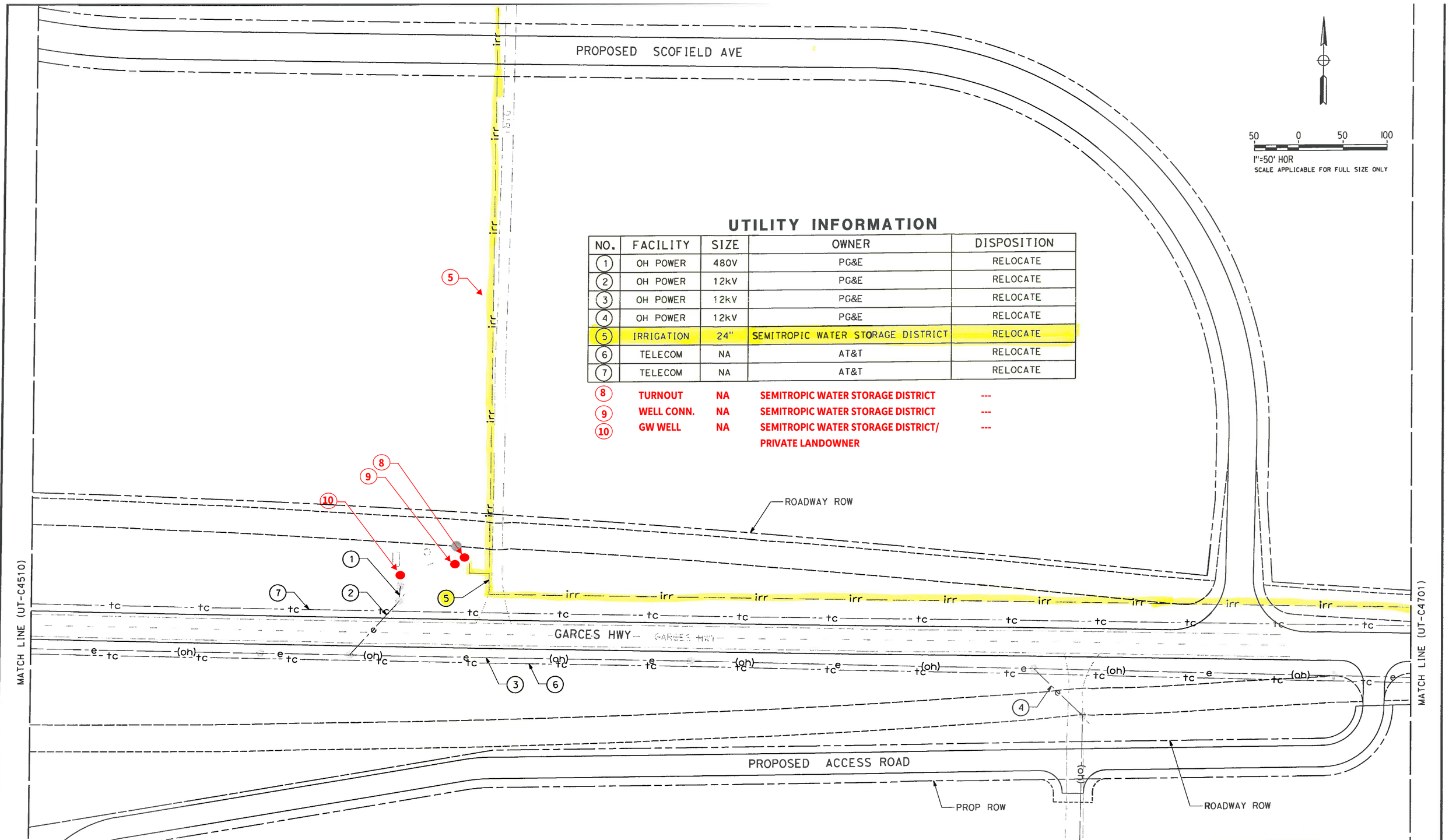
RFP No.: HSR 14-32 - 08/07/2015




## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 480V | PG&E | RELOCATE |
| 2 | OH POWER | 12kV | PG&E | RELOCATE |
| 3 | OH POWER | 12kV | PG&E | RELOCATE |
| 4 | OH POWER | 12kV | PG&E | RELOCATE |
| 5 | IRRIGATION | 24" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 6 | TELECOM | NA | AT&T | RELOCATE |
| 7 | TELECOM | NA | AT&T | RELOCATE |
| 8 | TURNOUT | NA | SEMITROPIC WATER STORAGE DISTRICT | --- |
| 9 | WELL CONN. | NA | SEMITROPIC WATER STORAGE DISTRICT | --- |
| 10 | GW WELL | NA | SEMITROPIC WATER STORAGE DISTRICT/ PRIVATE LANDOWNER | --- |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
GARCES HIGHWAY

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4700
SCALE AS SHOWN
SHEET NO. 108 OF 163

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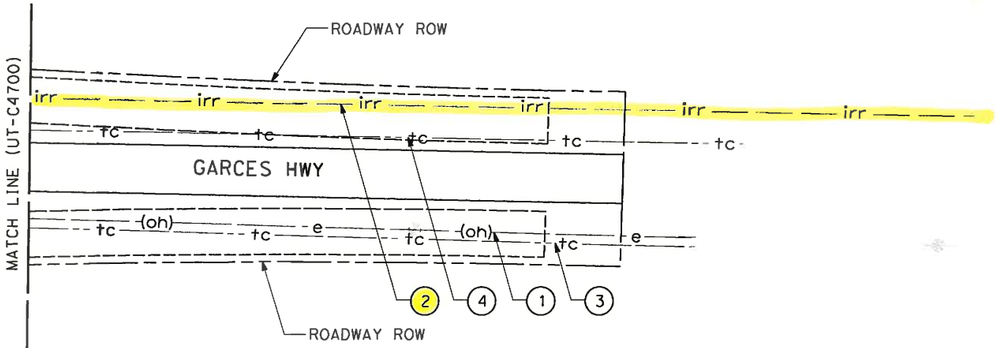
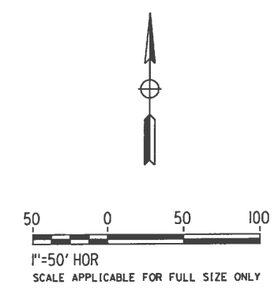
RFP No.: HSR 14-32 - 08/07/2015

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | IRRIGATION | 24" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 3 | TELECOM | NA | AT&T | RELOCATE |
| 4 | TELECOM | NA | AT&T | RELOCATE |




| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DRAWN BY V. ORTEGA
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IN CHARGE S. BURGES
DATE 08/08/14

**PROPOSED PRELIMINARY DESIGN**

**NOT FOR CONSTRUCTION**

URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
GARCES HIGHWAY

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4701
SCALE AS SHOWN
SHEET NO. 109 OF 163

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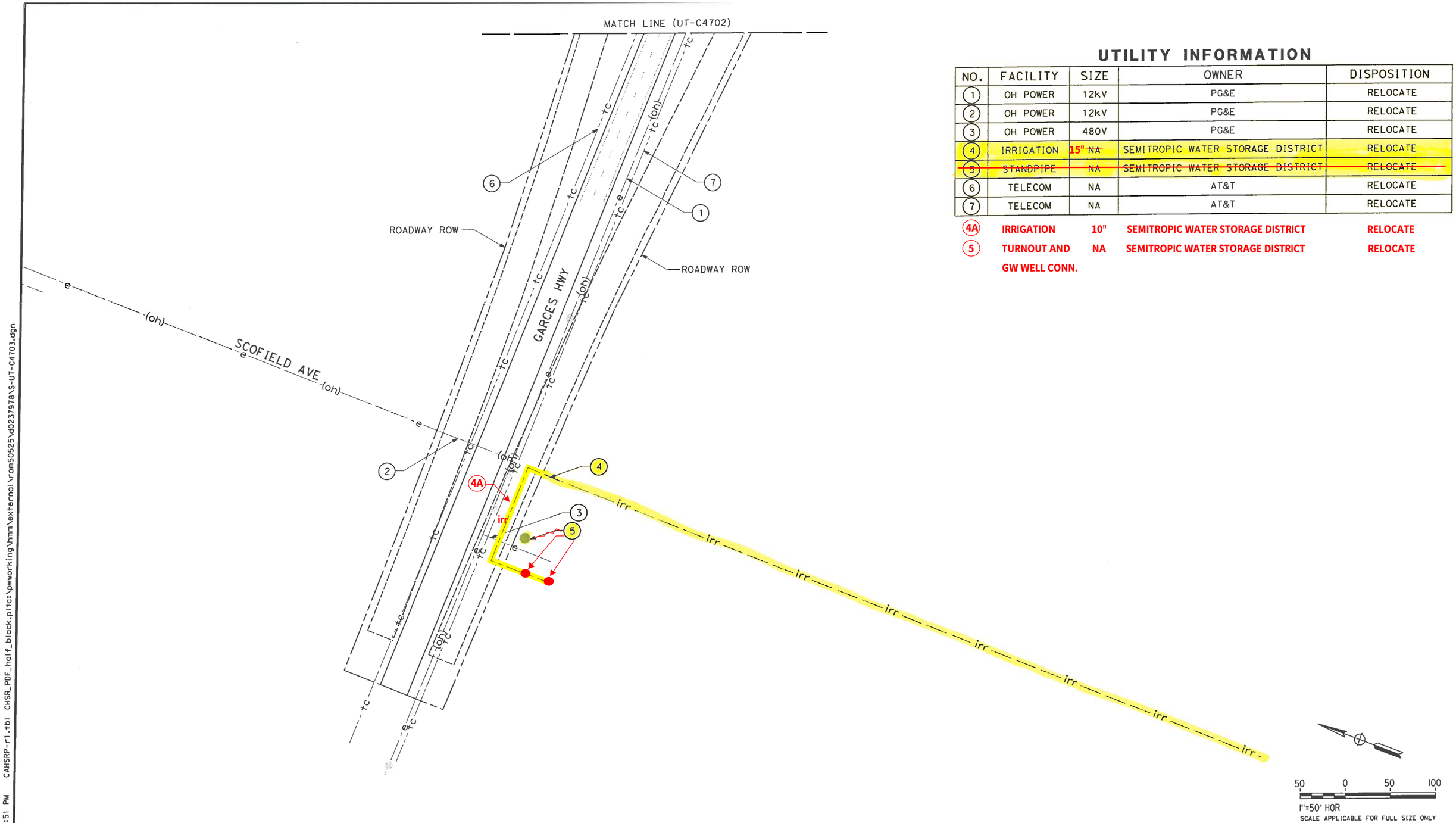
RFP No.: HSR 14-32 - 08/07/2015




## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | OH POWER | 12kV | PG&E | RELOCATE |
| 3 | OH POWER | 480V | PG&E | RELOCATE |
| 4 | IRRIGATION | 15" ~~NA~~ | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| ~~5~~ | ~~STANDPIPE~~ | ~~NA~~ | ~~SEMITROPIC WATER STORAGE DISTRICT~~ | ~~RELOCATE~~ |
| 6 | TELECOM | NA | AT&T | RELOCATE |
| 7 | TELECOM | NA | AT&T | RELOCATE |
| 4A | IRRIGATION | 10" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 5 | TURNOUT AND GW WELL CONN. | NA | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |

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IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
GARCES HIGHWAY

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4703
SCALE AS SHOWN
SHEET NO. 111 OF 163

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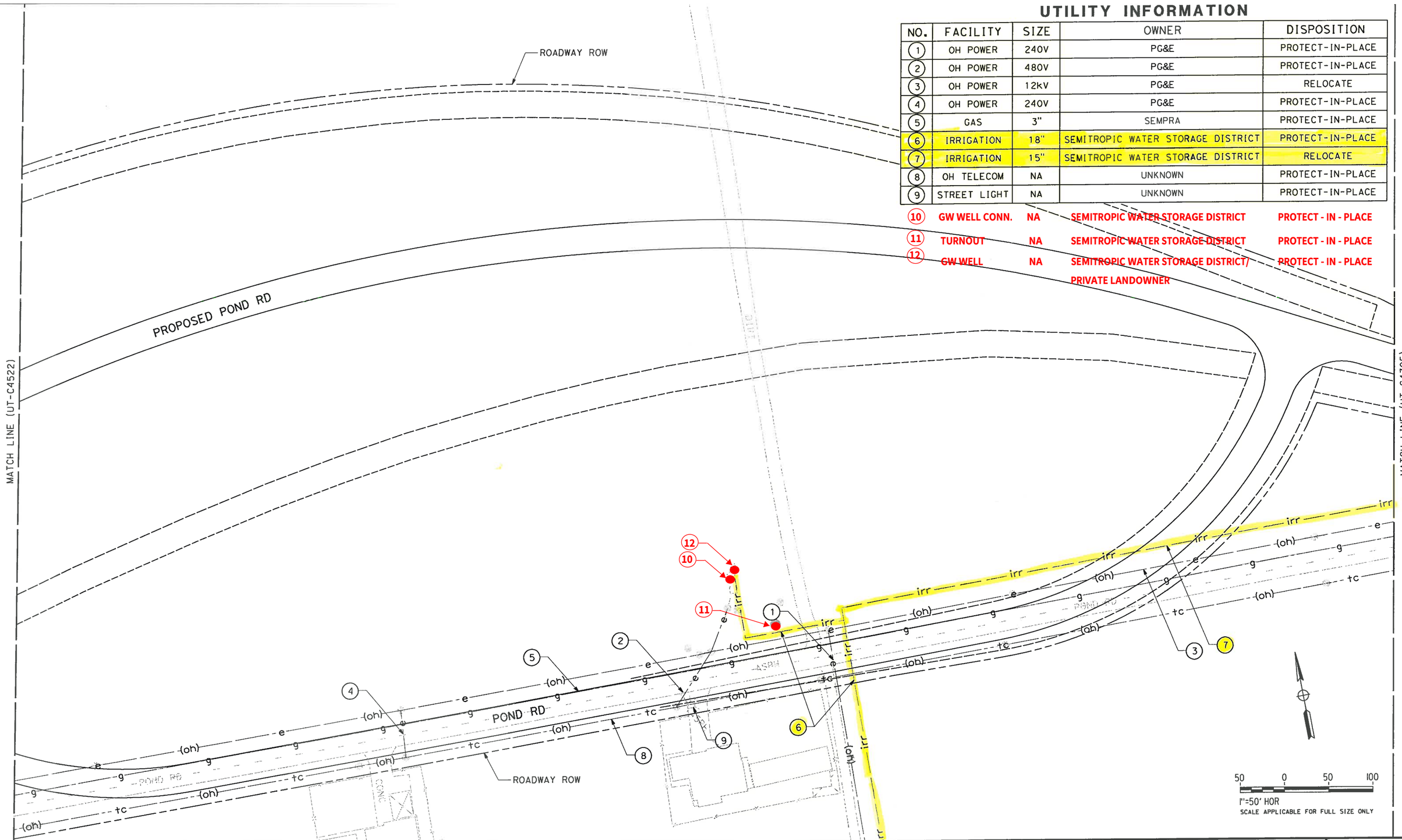
RFP No.: HSR 14-32 - 08/07/2015

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 240V | PG&E | PROTECT-IN-PLACE |
| 2 | OH POWER | 480V | PG&E | PROTECT-IN-PLACE |
| 3 | OH POWER | 12kV | PG&E | RELOCATE |
| 4 | OH POWER | 240V | PG&E | PROTECT-IN-PLACE |
| 5 | GAS | 3" | SEMPRA | PROTECT-IN-PLACE |
| 6 | IRRIGATION | 18" | SEMITROPIC WATER STORAGE DISTRICT | PROTECT-IN-PLACE |
| 7 | IRRIGATION | 15" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 8 | OH TELECOM | NA | UNKNOWN | PROTECT-IN-PLACE |
| 9 | STREET LIGHT | NA | UNKNOWN | PROTECT-IN-PLACE |
| 10 | GW WELL CONN. | NA | SEMITROPIC WATER STORAGE DISTRICT | PROTECT - IN - PLACE |
| 11 | TURNOUT | NA | SEMITROPIC WATER STORAGE DISTRICT | PROTECT - IN - PLACE |
| 12 | GW WELL | NA | SEMITROPIC WATER STORAGE DISTRICT/ PRIVATE LANDOWNER | PROTECT - IN - PLACE |




| REV | DATE | BY | CHK | APP | DESCRIPTION |
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CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

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URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
POND ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4704
SCALE AS SHOWN
SHEET NO. 112 OF 163

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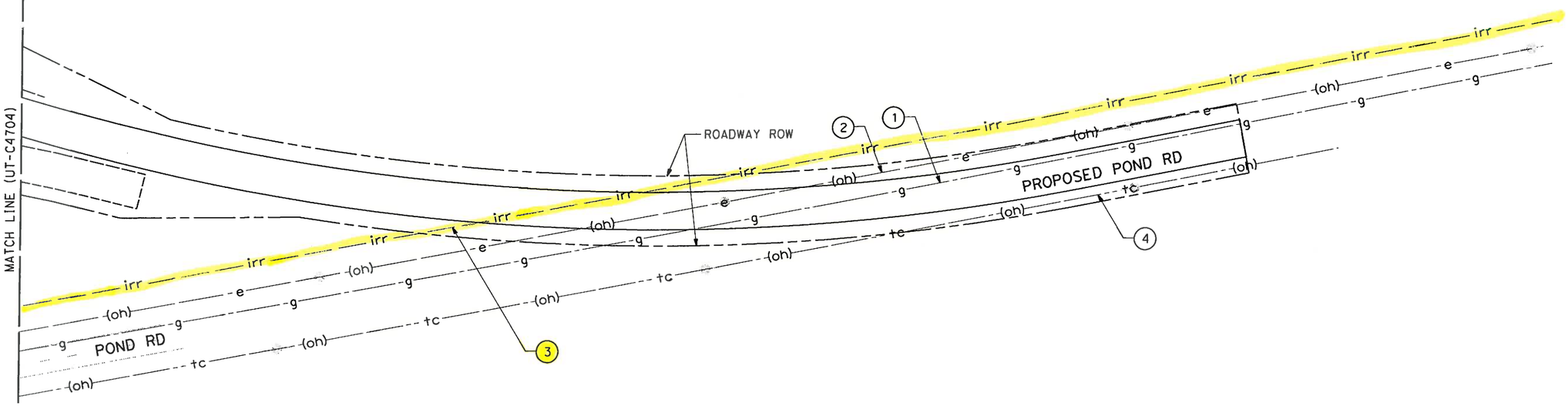
RFP No.: HSR 14-32 - 08/07/2015

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | GAS | 3" | SEMPRA | RELOCATE |
| 2 | OH POWER | 12kV | PG&E | RELOCATE |
| 3 | IRRIGATION | 15" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 4 | OH TELECOM | NA | UNKNOWN | PROTECT-IN-PLACE |



50 0 50 100

1"=50' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

URS | HMM | AECOM

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
POND ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4705
SCALE AS SHOWN
SHEET NO. 113 OF 163

RFP No.: HSR 14-32 - 08/07/2015

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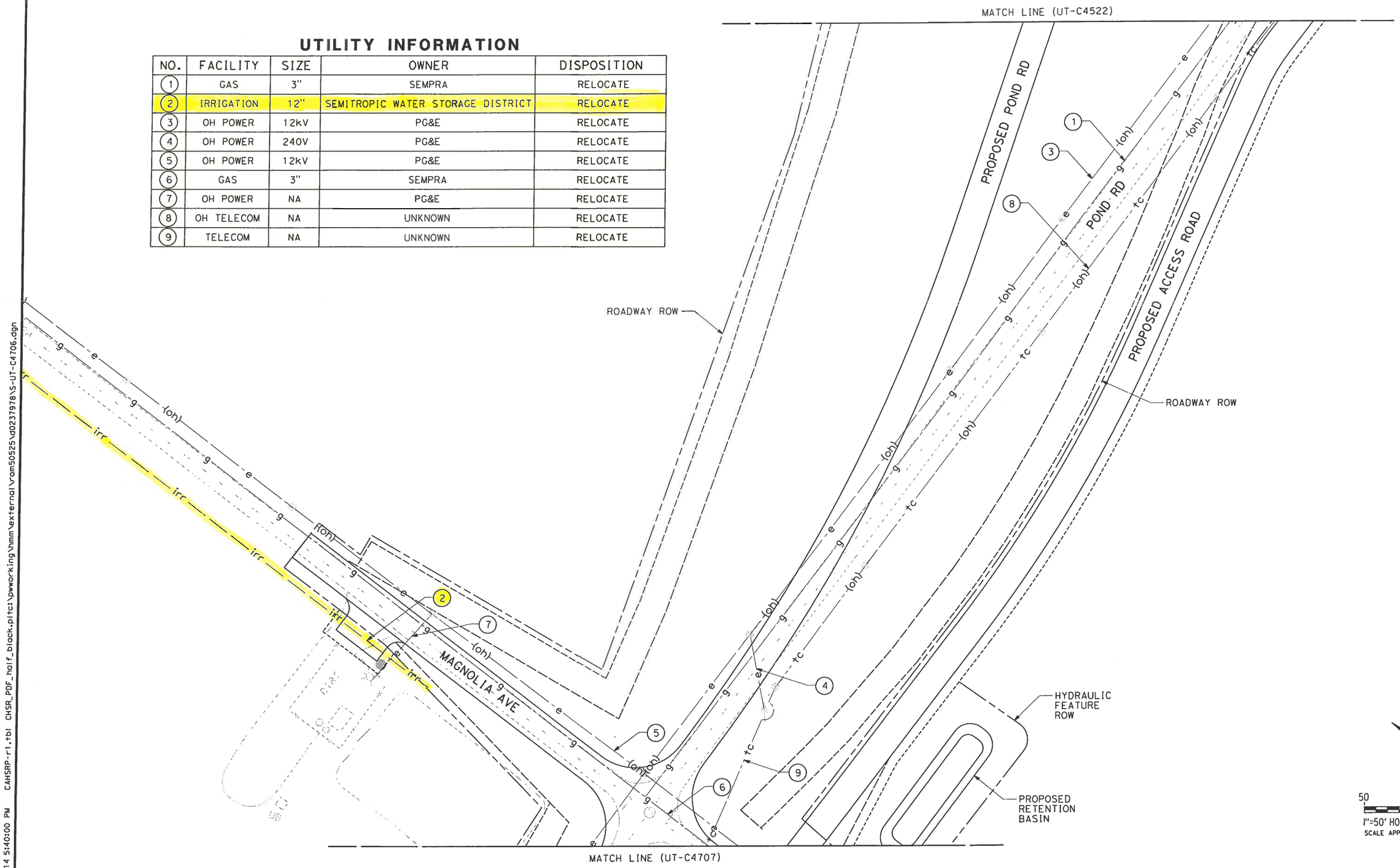
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | GAS | 3" | SEMPRA | RELOCATE |
| 2 | IRRIGATION | 12" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 3 | OH POWER | 12kV | PG&E | RELOCATE |
| 4 | OH POWER | 240V | PG&E | RELOCATE |
| 5 | OH POWER | 12kV | PG&E | RELOCATE |
| 6 | GAS | 3" | SEMPRA | RELOCATE |
| 7 | OH POWER | NA | PG&E | RELOCATE |
| 8 | OH TELECOM | NA | UNKNOWN | RELOCATE |
| 9 | TELECOM | NA | UNKNOWN | RELOCATE |

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|---|---|---|---|---|---|

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IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

LIRS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
POND ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4706
SCALE AS SHOWN
SHEET NO. 114 OF 163

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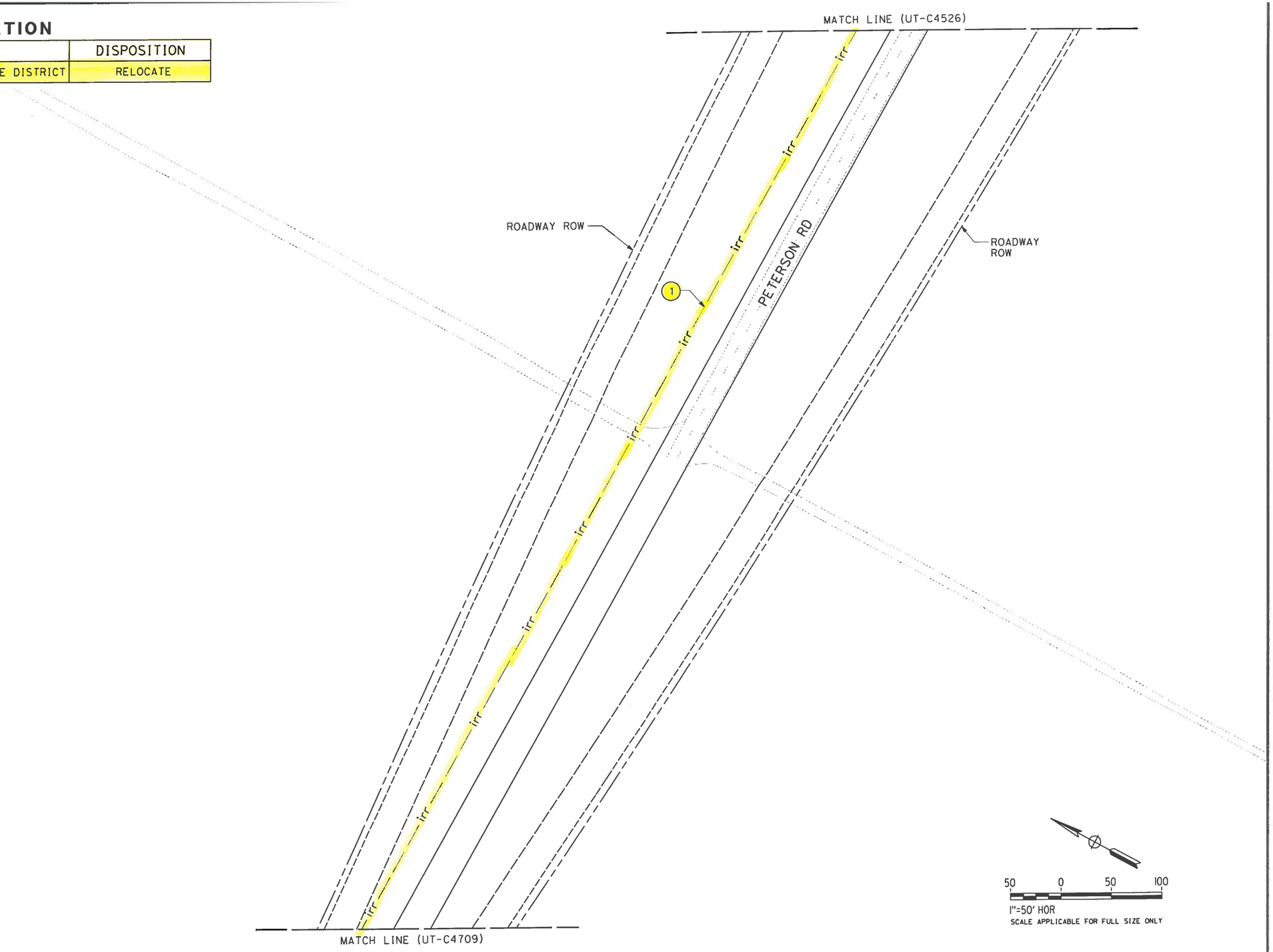
RFP No.: HSR 14-32 - 08/07/2015

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | IRRIGATION | 30" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |




| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

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DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
PETERSON ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4708
SCALE AS SHOWN
SHEET NO. 116 OF 163

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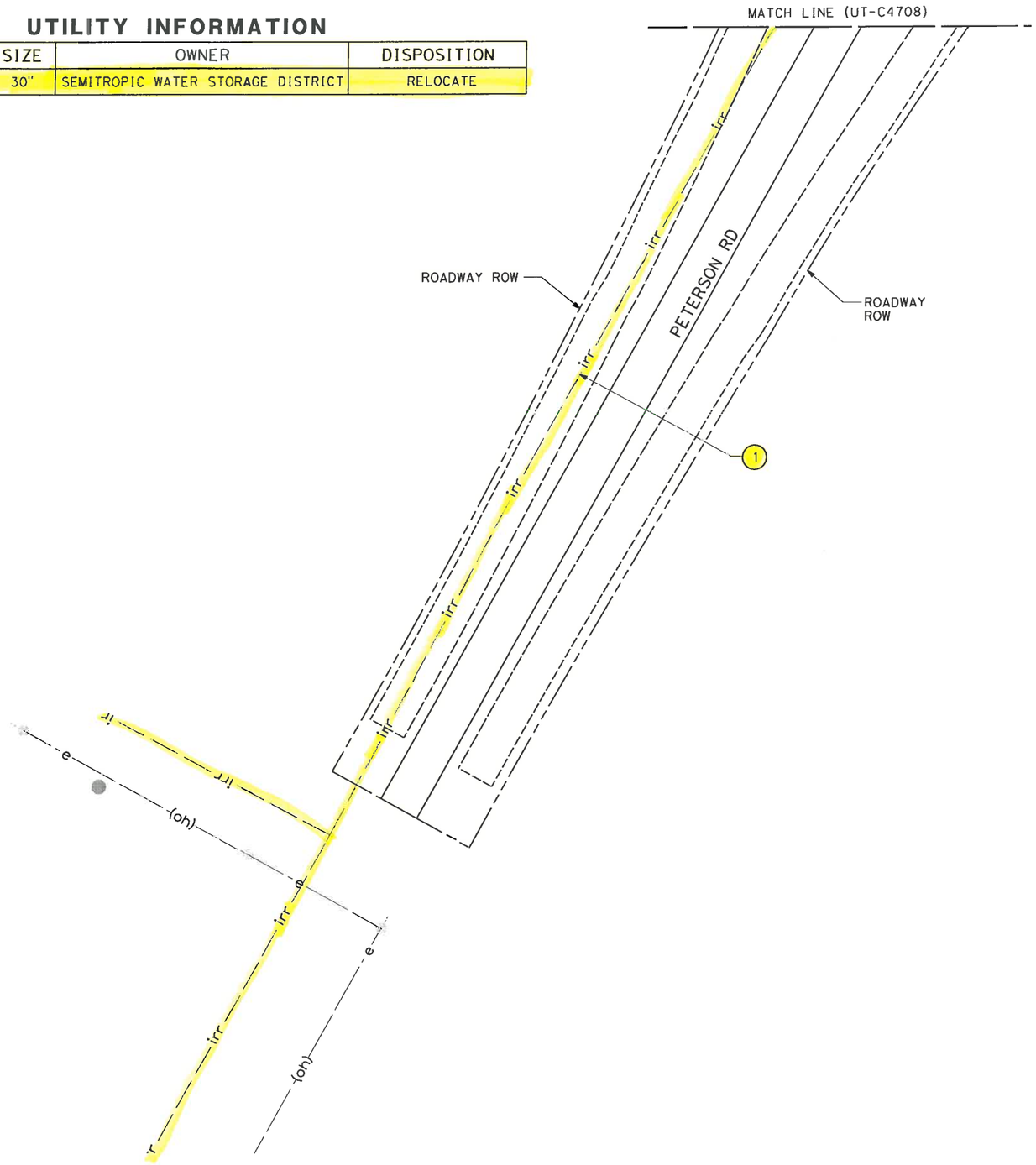
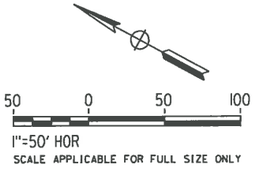
RFP No.: HSR 14-32 - 08/07/2015

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | IRRIGATION | 30" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |

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|---|---|---|---|---|---|

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DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

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URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
PETERSON ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4709
SCALE AS SHOWN
SHEET NO. 117 OF 163

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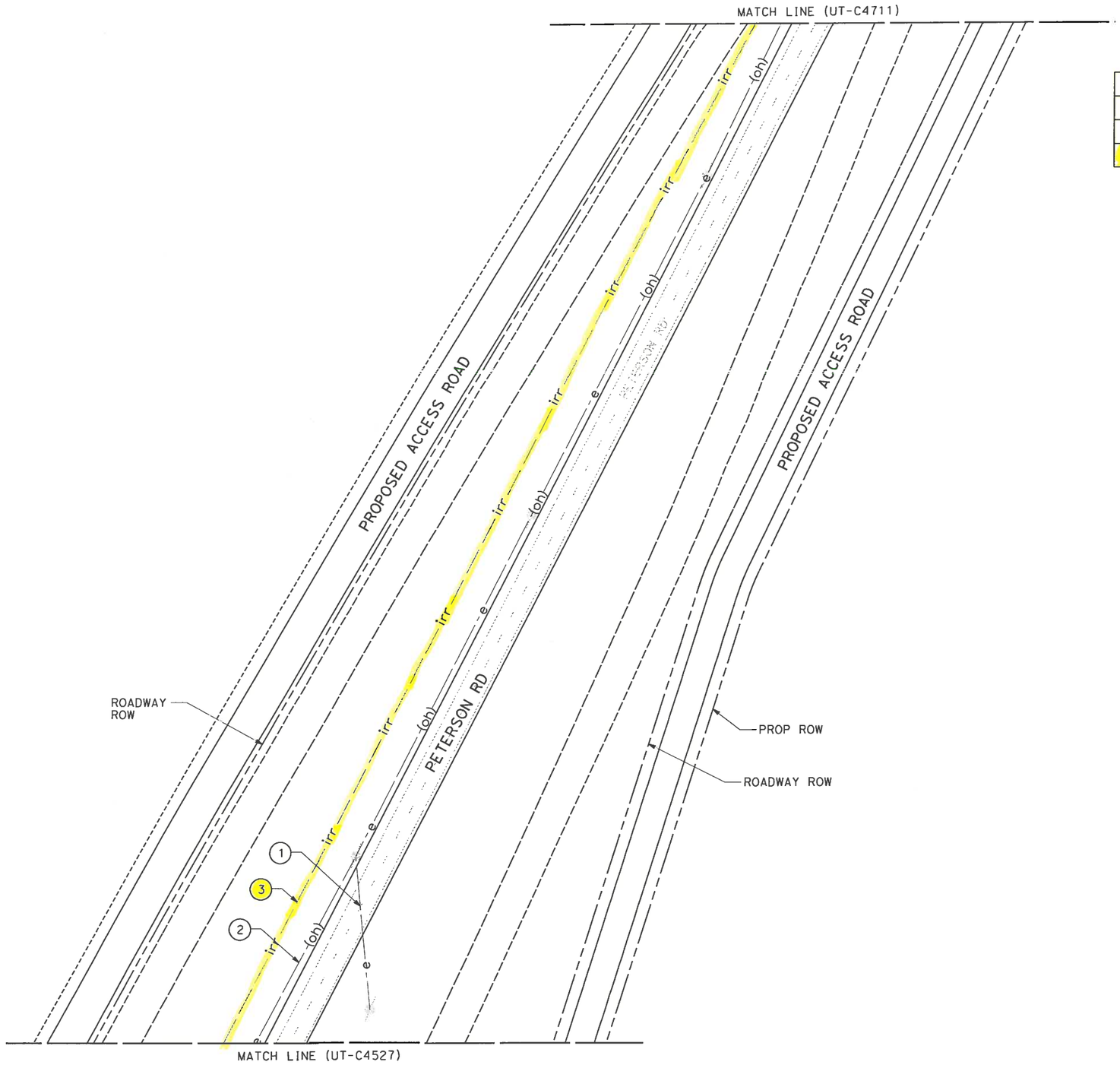


## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | OH POWER | 12kV | PG&E | RELOCATE |
| 3 | IRRIGATION | 30" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |

50 0 50 100

1"=50' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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PROPOSED PRELIMINARY DESIGN

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URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
PETERSON ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4710
SCALE AS SHOWN
SHEET NO. 118 OF 163

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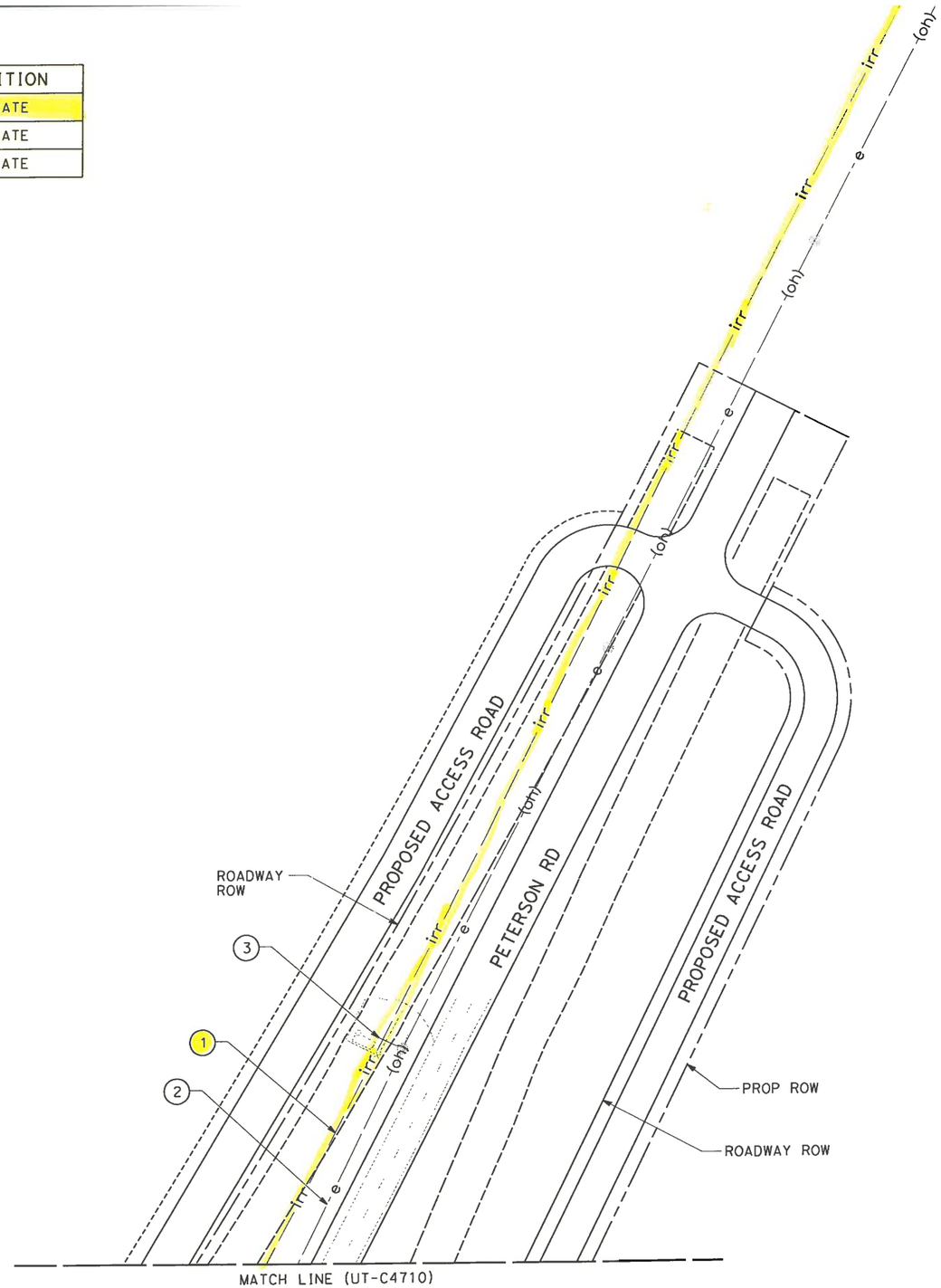
RFP No.: HSR 14-32 - 08/07/2015

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | IRRIGATION | 30" | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE |
| 2 | OH POWER | 12kV | PG&E | RELOCATE |
| 3 | POWER | NA | PG&E | RELOCATE |




50 0 50 100
1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

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IN CHARGE S. BURGES
DATE 08/08/14

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URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
PETERSON ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4711
SCALE AS SHOWN
SHEET NO. 119 OF 163

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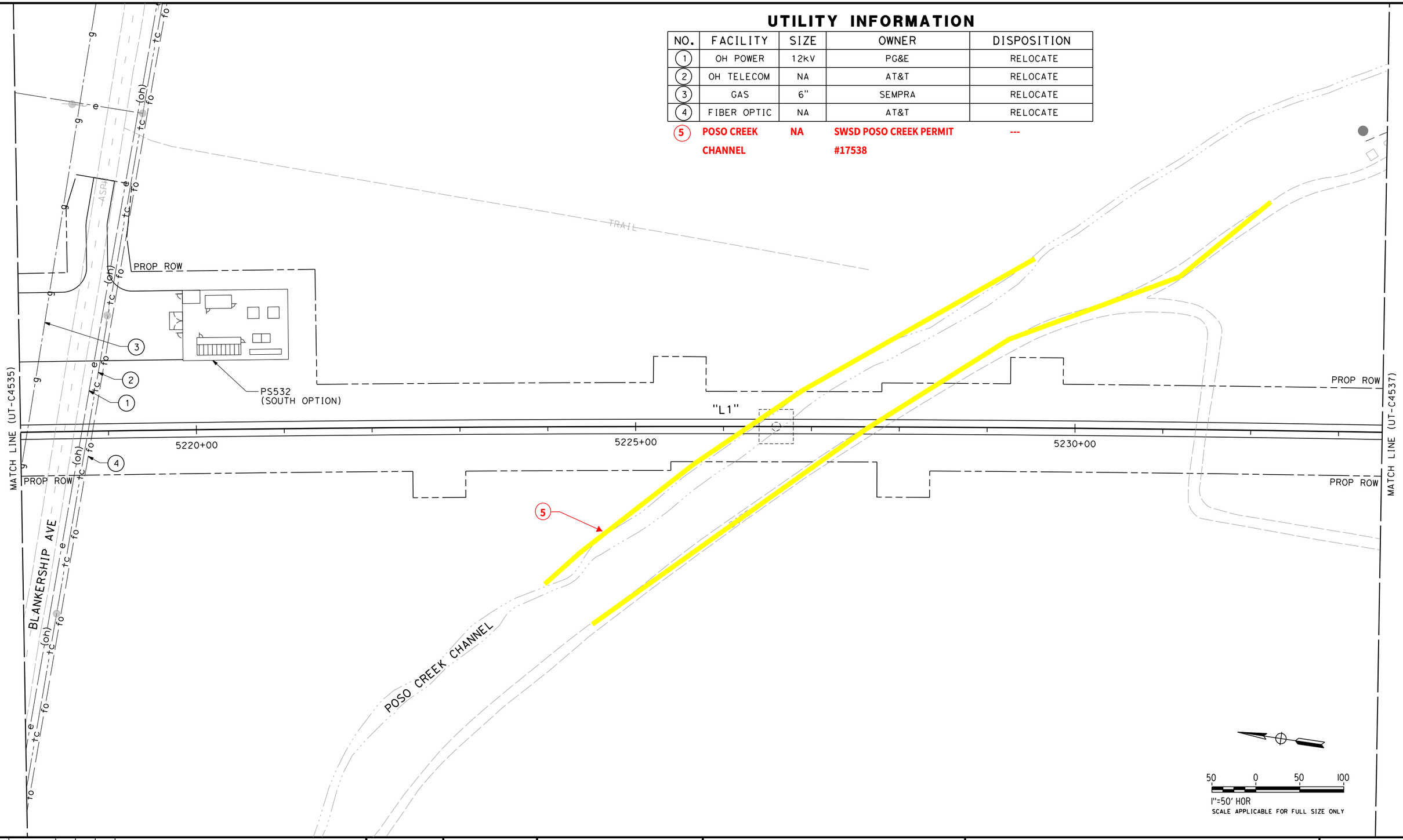
RFP No.: HSR 14-32 - 08/07/2015

# UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | OH TELECOM | NA | AT&T | RELOCATE |
| 3 | GAS | 6" | SEMPRA | RELOCATE |
| 4 | FIBER OPTIC | NA | AT&T | RELOCATE |
| 5 | POSO CREEK CHANNEL | NA | SWSD POSO CREEK PERMIT #17538 | --- |

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IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT L1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5218+00 TO 5233+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4536
SCALE AS SHOWN
SHEET NO. 45 OF 163

RFP No.: HSR 14-32 - 08/07/2015

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RFP No.: HSR14-32 - 08/07/2015

# *Shafter~Wasco Irrigation District*

*Board of Directors*

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CRAIG D. FULWYLER
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**P.O. Box 1168**
**Wasco, California 93280**
❖
**Business Office: (661) 758-5153**
**Fax: (661) 758-6167**
**Water Department: (661) 758-5369**

*General Manager*
DANA S. MUNN

*Office Manager-Treasurer*
CAROLYN WALDRIP

*Legal Counsel*

ERNEST A. CONANT
SCOTT K. KUNEY

December 9, 2014

Mr. Thomas Grau (Via E-mail)
URS/HMM/ARUP Joint Venture
2870 Gateway Oaks Drive, Suite 150
Sacramento, California 95833

Subject: California High-Speed Rail Project
Contract No. HSR 13-13
RE: HSR-FB-CP 4-Composite Utility Plans-SWID

Dear Mr. Grau:

In August 2014, the Shafter-Wasco Irrigation District ("District") received the Composite Utility Plans for the California High-Speed Rail Project (the Plans), Fresno to Bakersfield Contract Package 4, along with your request for this District's review of each of the drawings. The Plans are understood to be at the 15% level of design and are intended to identify and depict potential conflicts between the proposed rail alignment and the District's existing "pipeline" facilities. This letter is to transmit the District's comments on the 15% design Plans for the "pipeline" conflicts.

Review of the Plans consisted of comparing the maps and figures identifying the potential conflicts between District facilities and the proposed rail alignment which the District submitted to the High-Speed Rail Authority (HSRA) in June 2014. Upon review of each drawing and the Utility Information table on each sheet, corrections have been made to address deficiencies which were identified. In particular, while the Plans captured conflicts with existing pipelines, they did not address the facilities associated with the pipelines, such as District turnouts, which would be impacted by the proposed rail alignment. Accordingly, these facilities have been identified on the marked up plans.

Missing facilities and incorrect information have been identified by the District in red on each drawing. Additionally, conflicts with future facilities (reference Figure 7 of the June submittal) and operational conflicts (reference Figure 8A, 8B, and 8C of the June submittal) have not been reflected in the Plans reviewed. Such conflicts have a potential for impacting potential relocation of project facilities, not identified on the 15% design plans. We anticipate that these corrections and the missing information will be noted and addressed in forthcoming design plans.

RFP No.: HSR 14-32 - 08/07/2015

If you have any questions or require anything else, please call me (at 661-758-5153) or Ms. Isela Medina (at 661-327-7601).

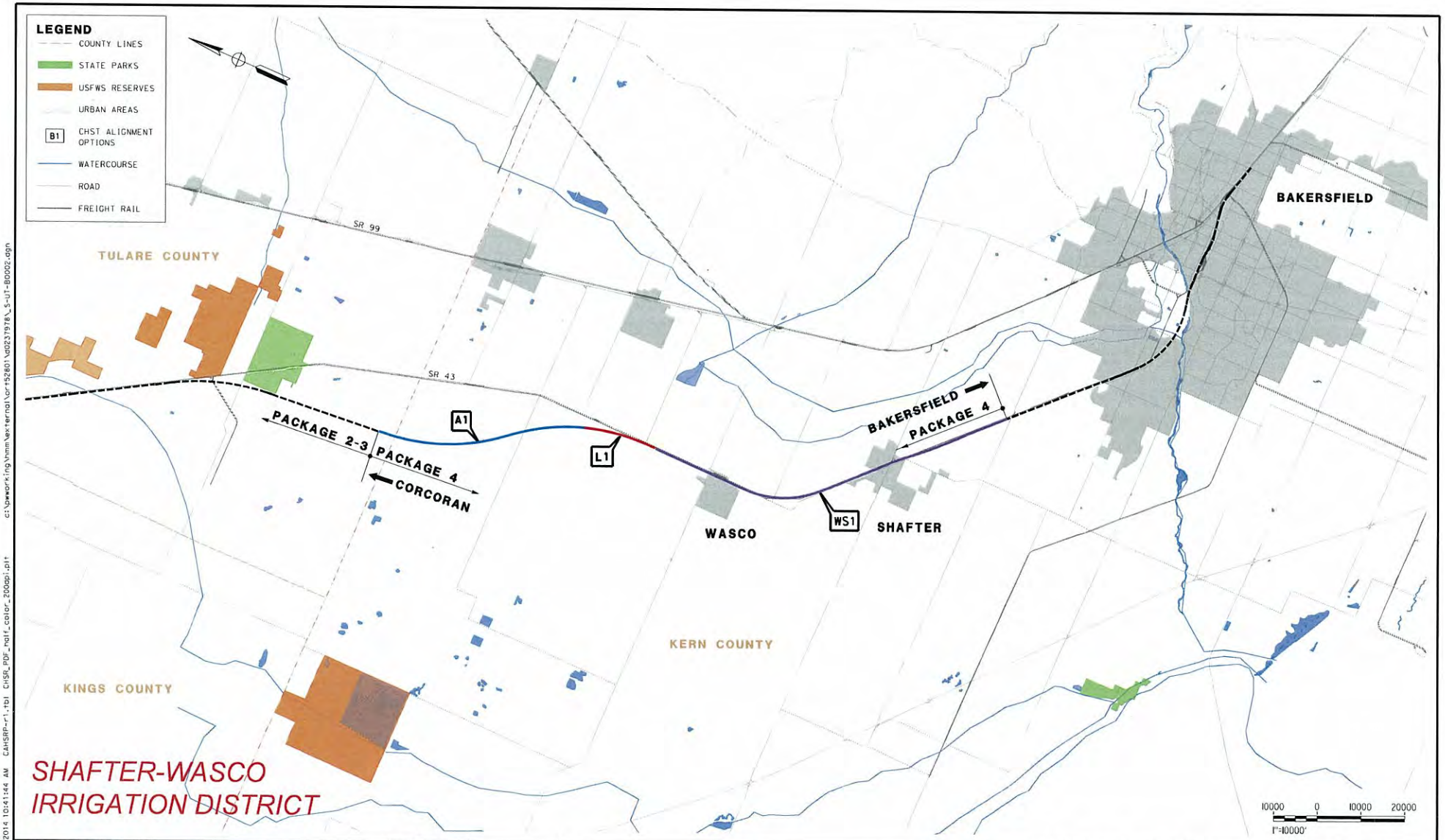
Sincerely,

DANA S. MUNN
General Manager

CC: Isela Medina, GEI Consultants, Inc.

Enclosure

RFP No.: HSR 14-32 - 08/07/2015

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|---|---|---|---|---|---|

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IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4
UTILITIES
COMPOSITE UTILITY PLAN
ALIGNMENT LOCATION MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-B0002
SCALE AS SHOWN
SHEET NO. 1 OF 163

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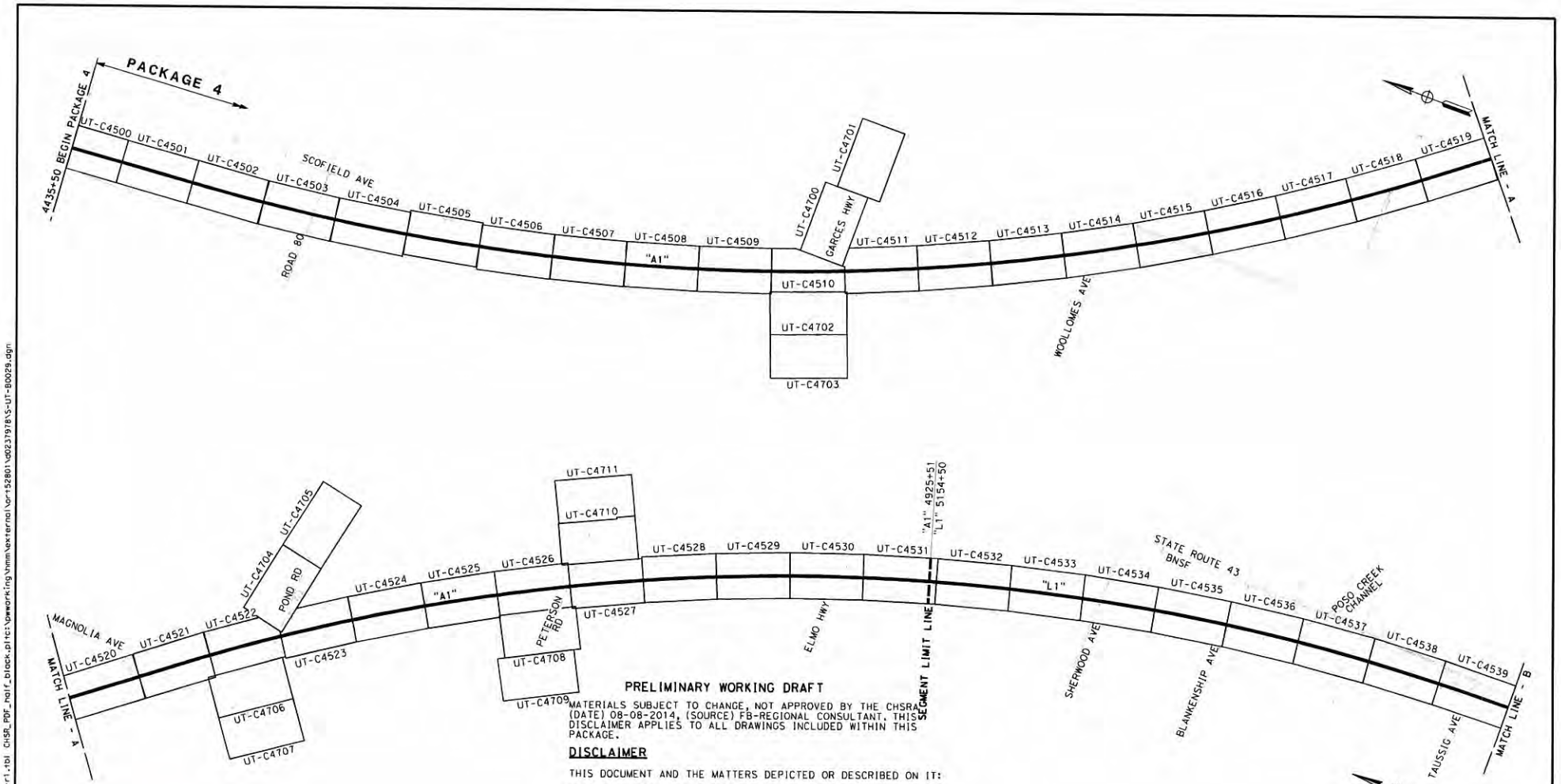


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# SHAFTER-WASCO IRRIGATION DISTRICT

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DATE 08/08/14

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URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4
UTILITIES
COMPOSITE UTILITY PLAN
KEY MAP (SHEET 1 OF 3)

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-B0029
SCALE AS SHOWN
SHEET NO. 6 OF 163

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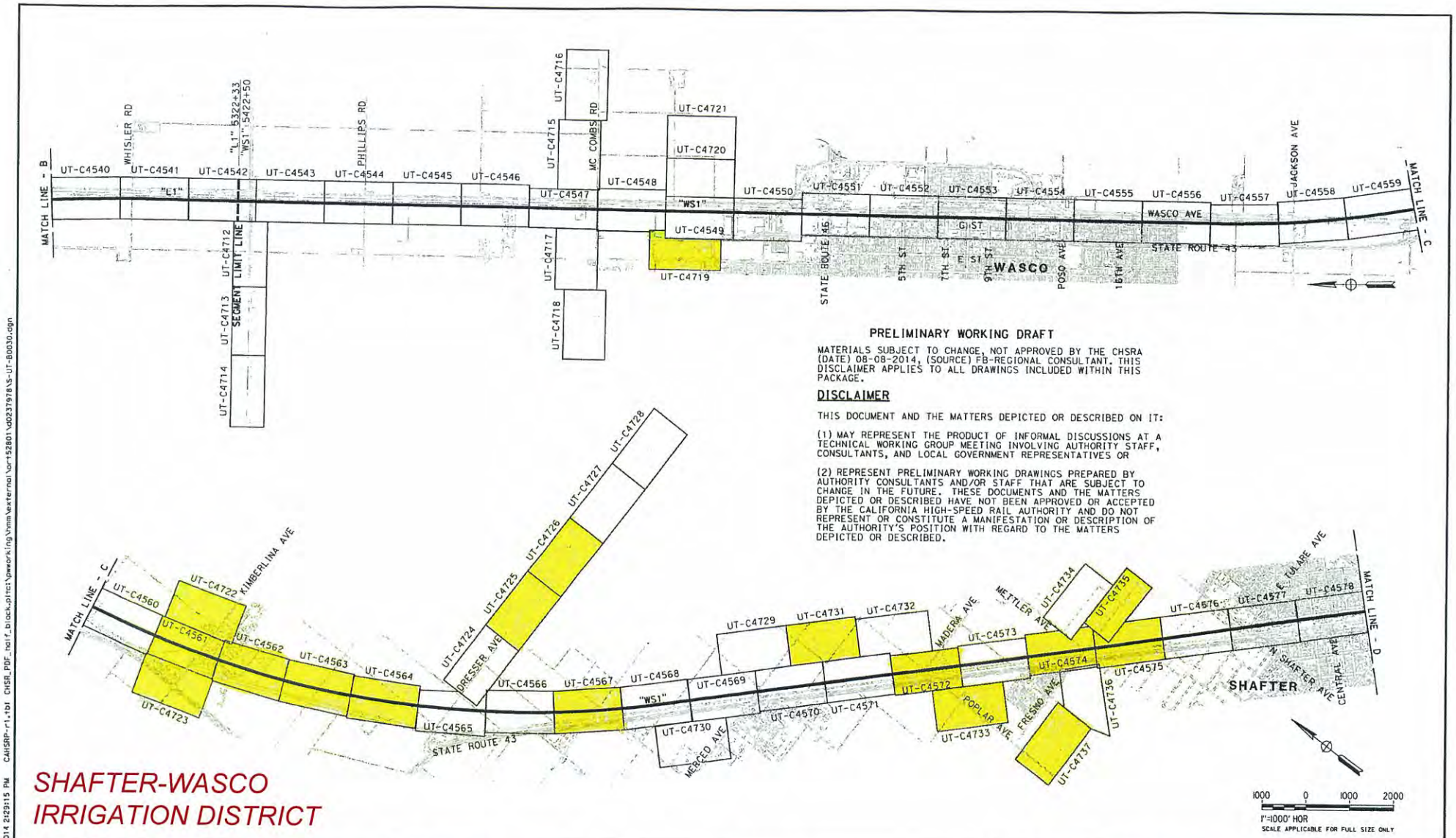


SHAFTER-WASCO
IRRIGATION DISTRICT

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

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DATE 08/08/14

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URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4
UTILITIES
COMPOSITE UTILITY PLAN
KEY MAP (SHEET 2 OF 3)

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-B0030
SCALE AS SHOWN
SHEET NO. 7 OF 163

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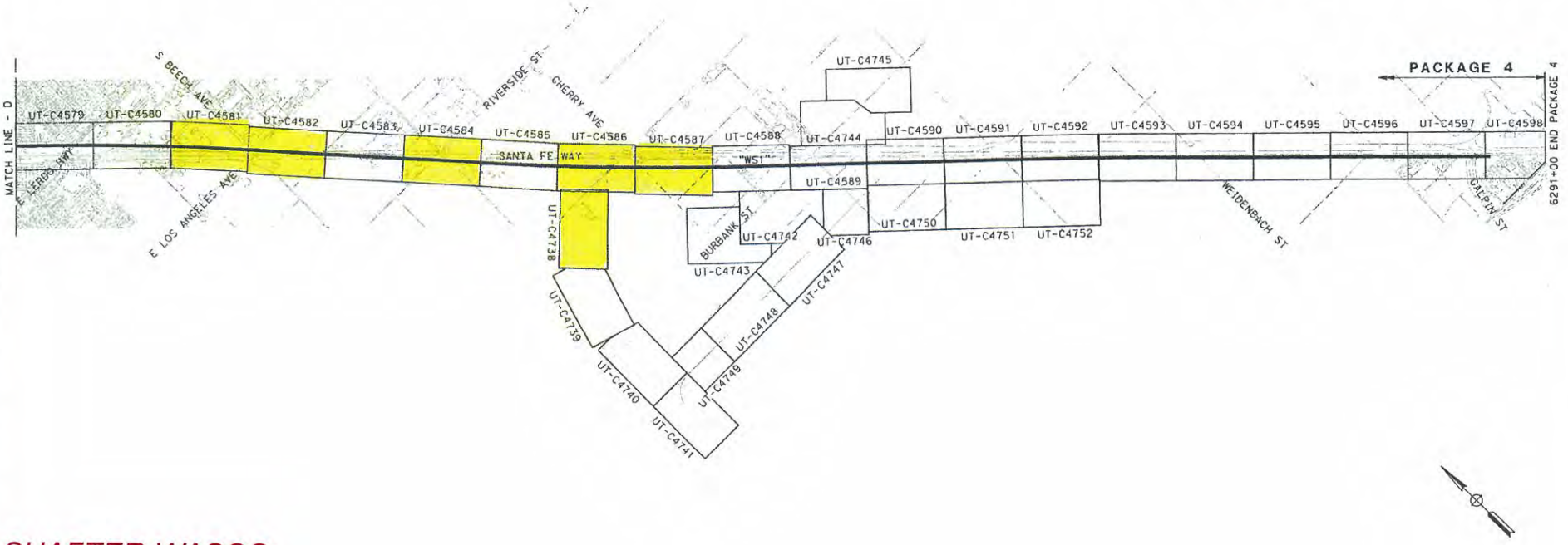


1000 0 1000 2000

1"=1000' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

SHAFTER-WASCO
IRRIGATION DISTRICT

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

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DATE 08/08/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4
UTILITIES
COMPOSITE UTILITY PLAN
KEY MAP (SHEET 3 OF 3)

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-B0031
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SHEET NO. 8 OF 163

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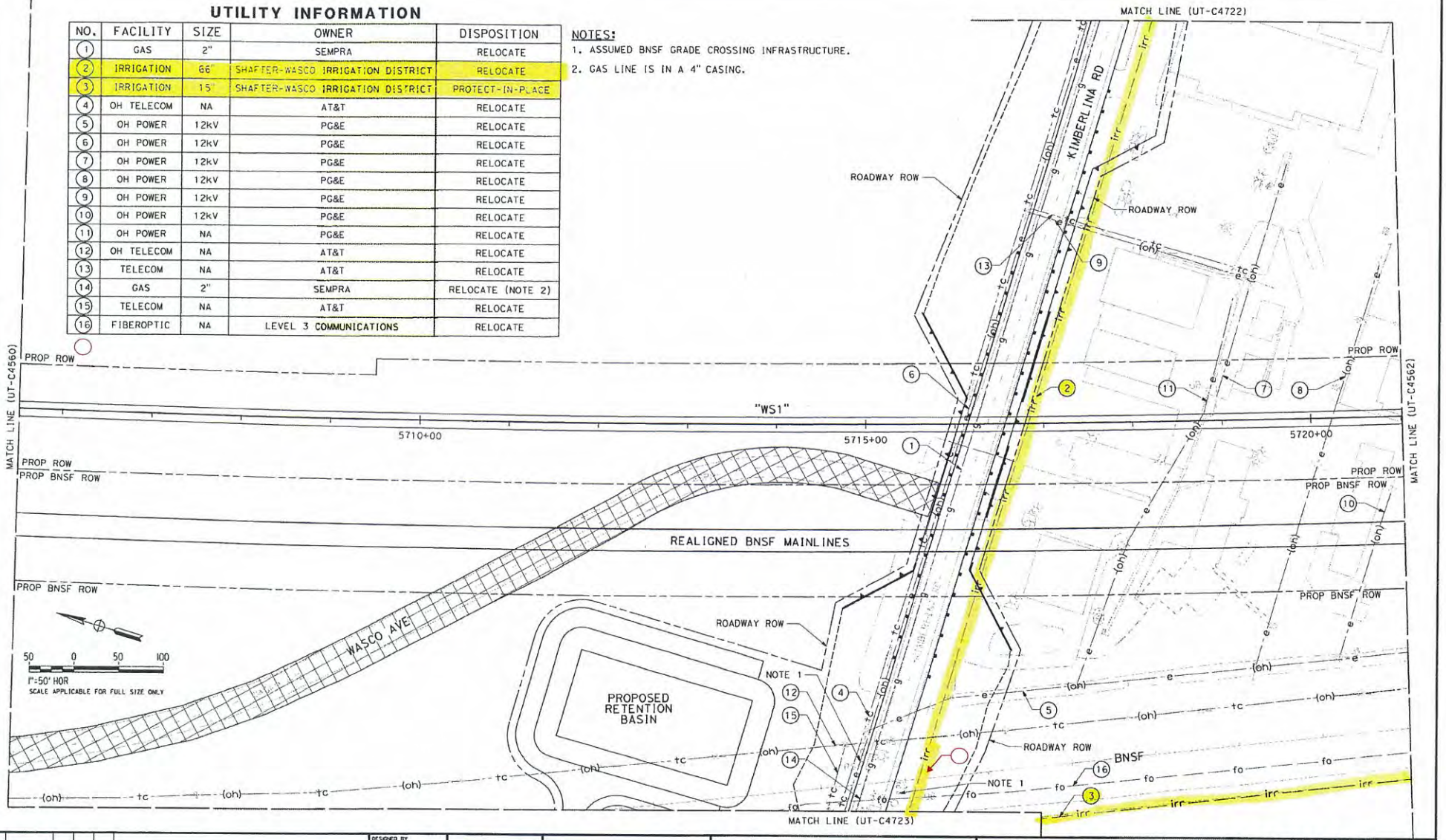
OR152801

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | GAS | 2" | SEMPRA | RELOCATE |
| 2 | IRRIGATION | 66" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 3 | IRRIGATION | 15" | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |
| 4 | OH TELECOM | NA | AT&T | RELOCATE |
| 5 | OH POWER | 12kV | PG&E | RELOCATE |
| 6 | OH POWER | 12kV | PG&E | RELOCATE |
| 7 | OH POWER | 12kV | PG&E | RELOCATE |
| 8 | OH POWER | 12kV | PG&E | RELOCATE |
| 9 | OH POWER | 12kV | PG&E | RELOCATE |
| 10 | OH POWER | 12kV | PG&E | RELOCATE |
| 11 | OH POWER | NA | PG&E | RELOCATE |
| 12 | OH TELECOM | NA | AT&T | RELOCATE |
| 13 | TELECOM | NA | AT&T | RELOCATE |
| 14 | GAS | 2" | SEMPRA | RELOCATE (NOTE 2) |
| 15 | TELECOM | NA | AT&T | RELOCATE |
| 16 | FIBEROPTIC | NA | LEVEL 3 COMMUNICATIONS | RELOCATE |

NOTES:
1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.
2. GAS LINE IS IN A 4" CASING.

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CALIFORNIA HIGHSPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5705+50 TO 5721+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4561
SCALE AS SHOWN
SHEET NO. 70 OF 163

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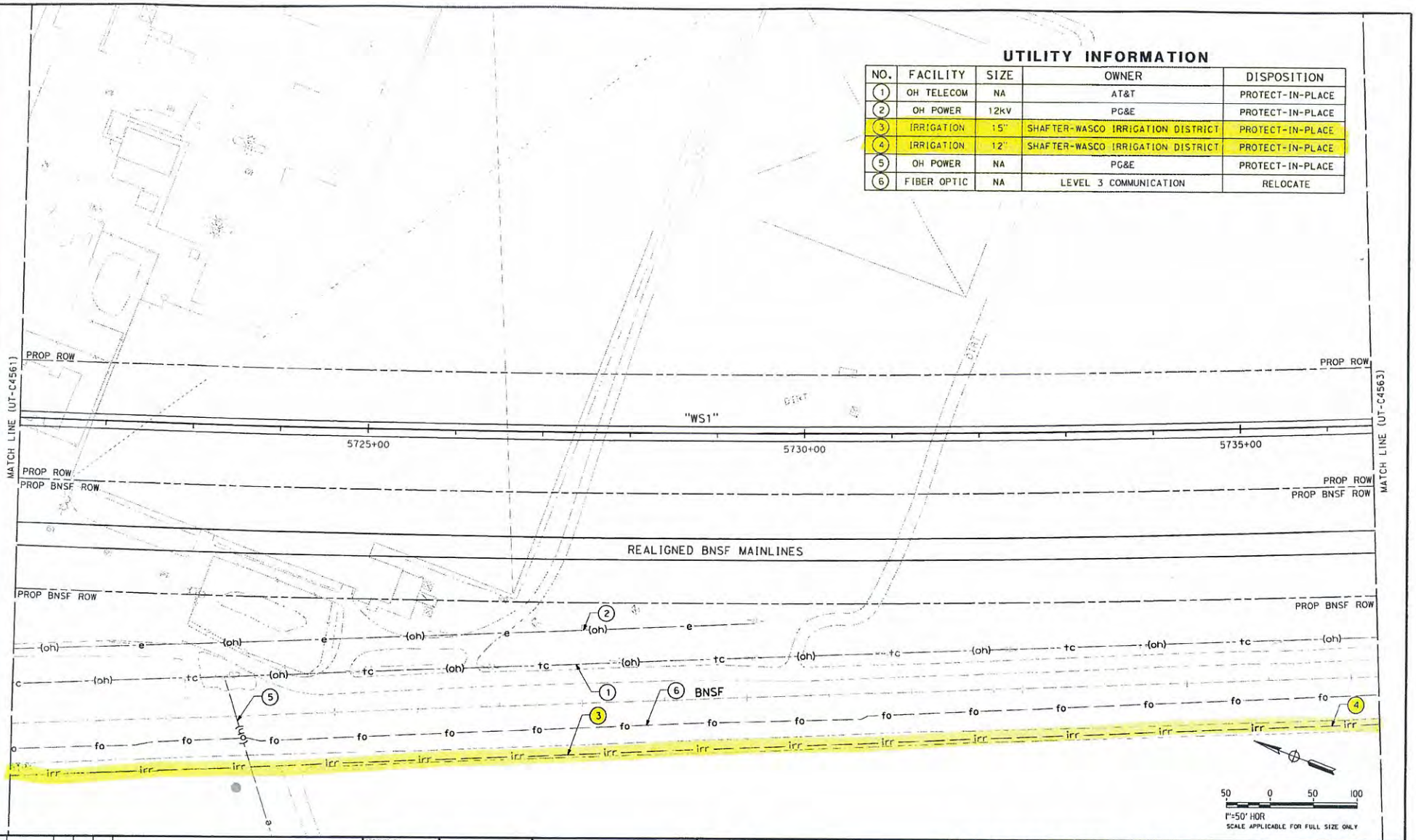
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH TELECOM | NA | AT&T | PROTECT-IN-PLACE |
| 2 | OH POWER | 12kV | PG&E | PROTECT-IN-PLACE |
| 3 | IRRIGATION | 15" | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |
| 4 | IRRIGATION | 12" | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |
| 5 | OH POWER | NA | PG&E | PROTECT-IN-PLACE |
| 6 | FIBER OPTIC | NA | LEVEL 3 COMMUNICATION | RELOCATE |

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5721+00 TO 5736+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4562
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SHEET NO. 71 OF 163

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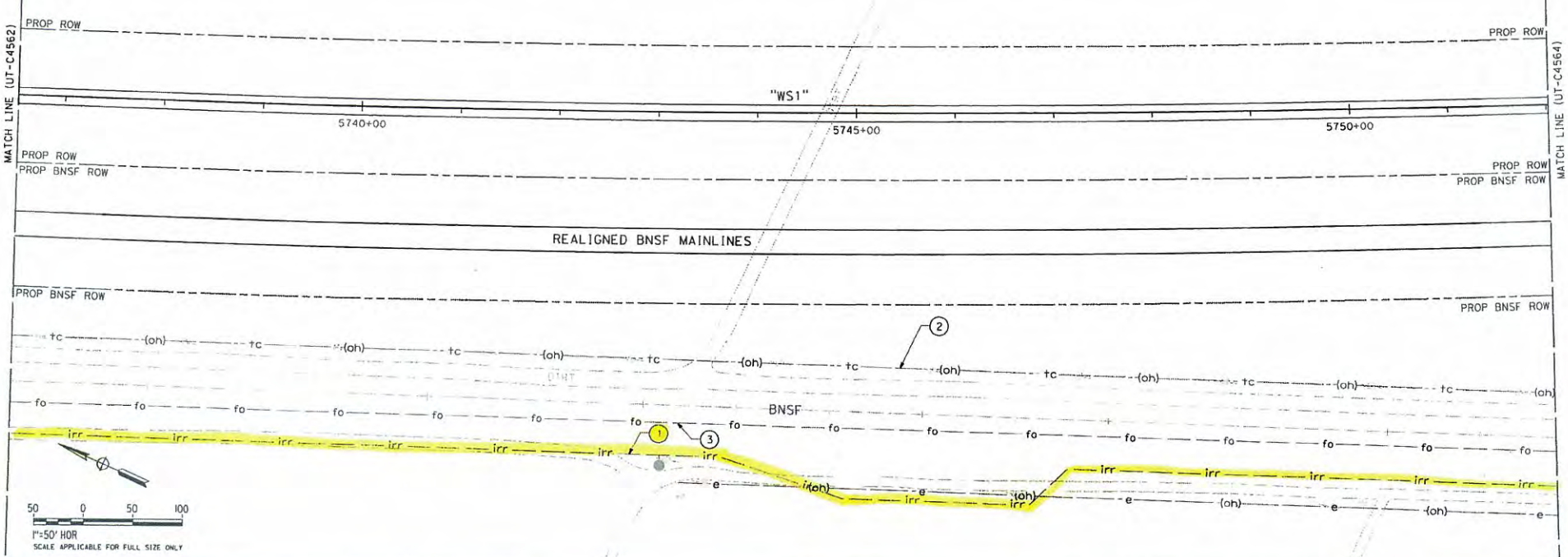
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | IRRIGATION | 12" | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |
| 2 | OH TELECOM | NA | AT&T | PROTECT-IN-PLACE |
| 3 | FIBER OPTIC | NA | LEVEL 3 COMMUNICATIONS | RELOCATE |

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URS | HMM | ARUP

CALIFORNIA HIGHSPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5736+50 TO 5752+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4563
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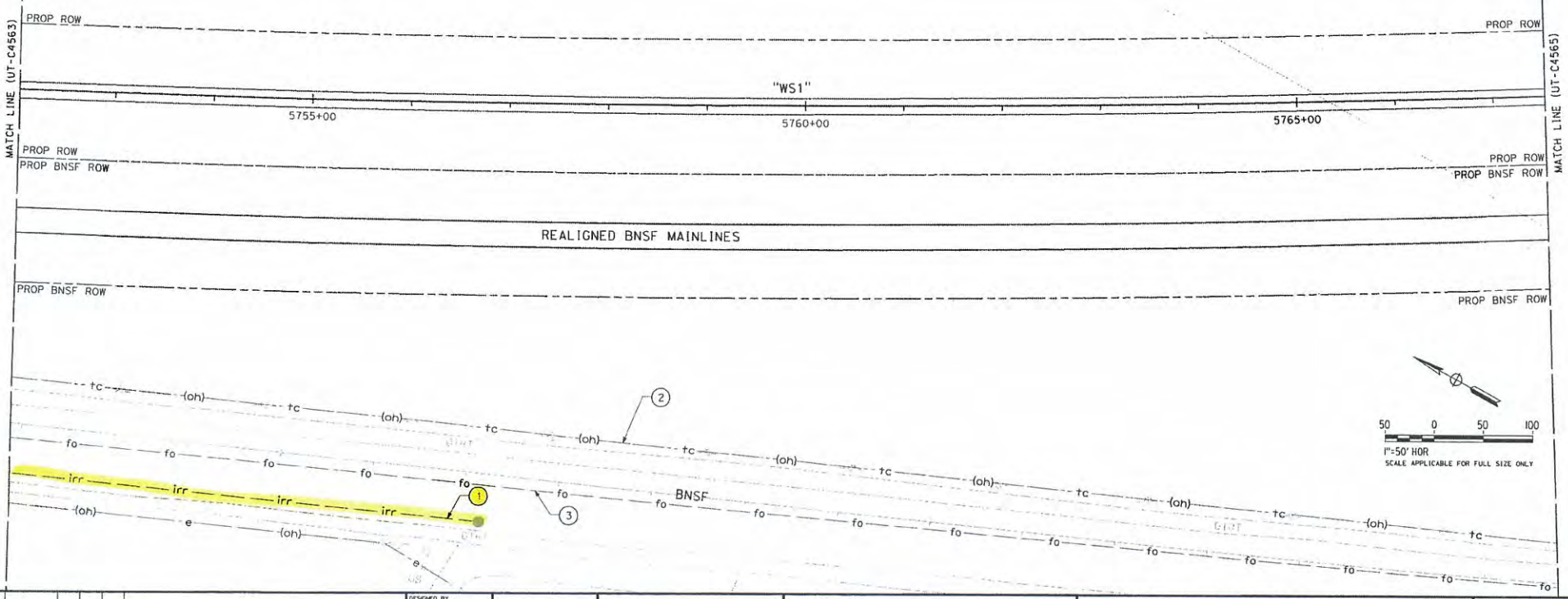
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | IRRIGATION | 12" | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |
| 2 | OH TELECOM | NA | AT&T | PROTECT-IN-PLACE |
| 3 | FIBER OPTIC | NA | LEVEL 3 COMMUNICATIONS | RELOCATE |




| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

WSP | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5752+00 TO 5767+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4564
SCALE AS SHOWN
SHEET NO. 73 OF 163

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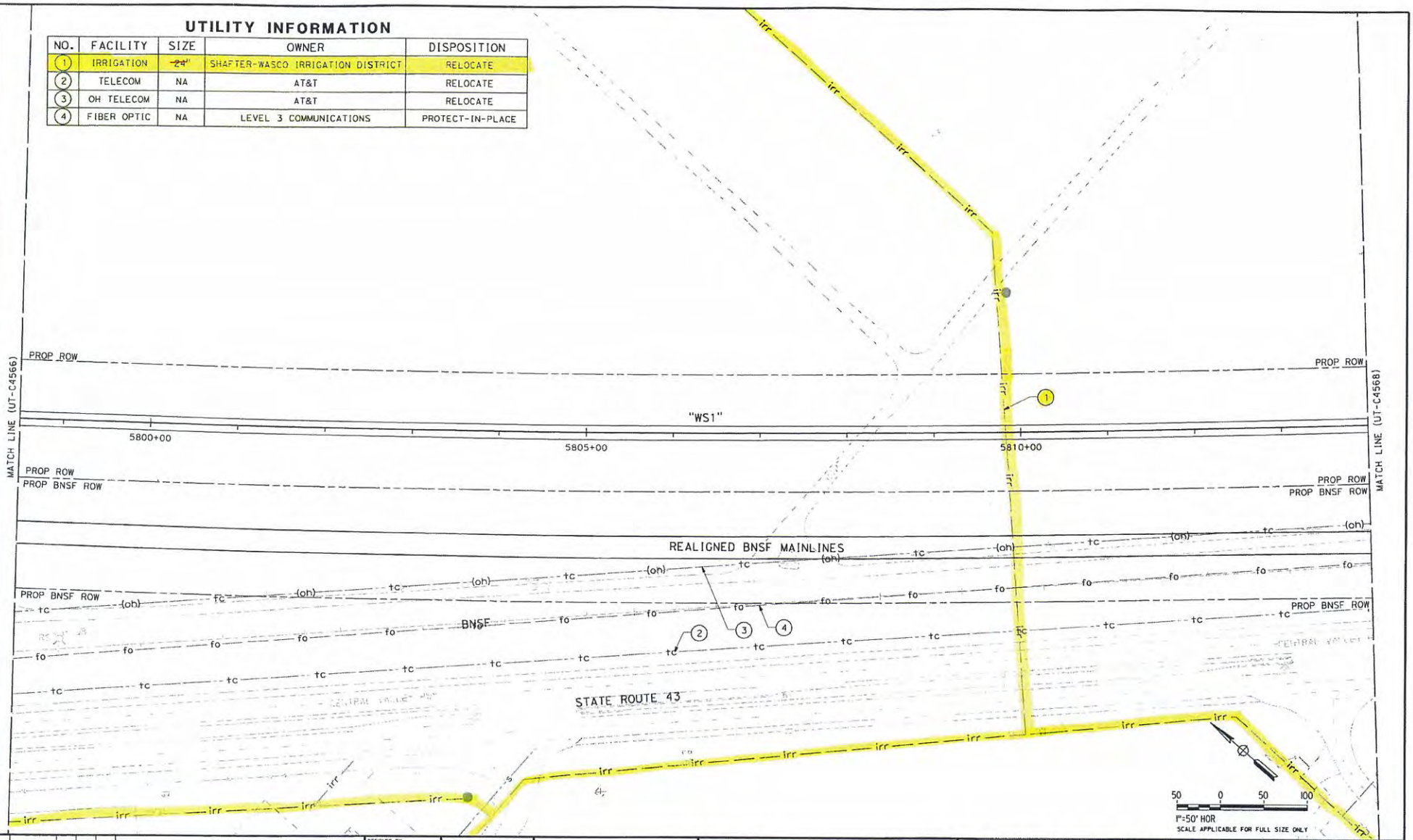
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | IRRIGATION | ~~24"~~ | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 2 | TELECOM | NA | AT&T | RELOCATE |
| 3 | OH TELECOM | NA | AT&T | RELOCATE |
| 4 | FIBER OPTIC | NA | LEVEL 3 COMMUNICATIONS | PROTECT-IN-PLACE |




| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

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CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

URS | HMM | ARUP

CALIFORNIA HIGHSPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5798+50 TO 5814+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4567
SCALE AS SHOWN
SHEET NO. 76 OF 163

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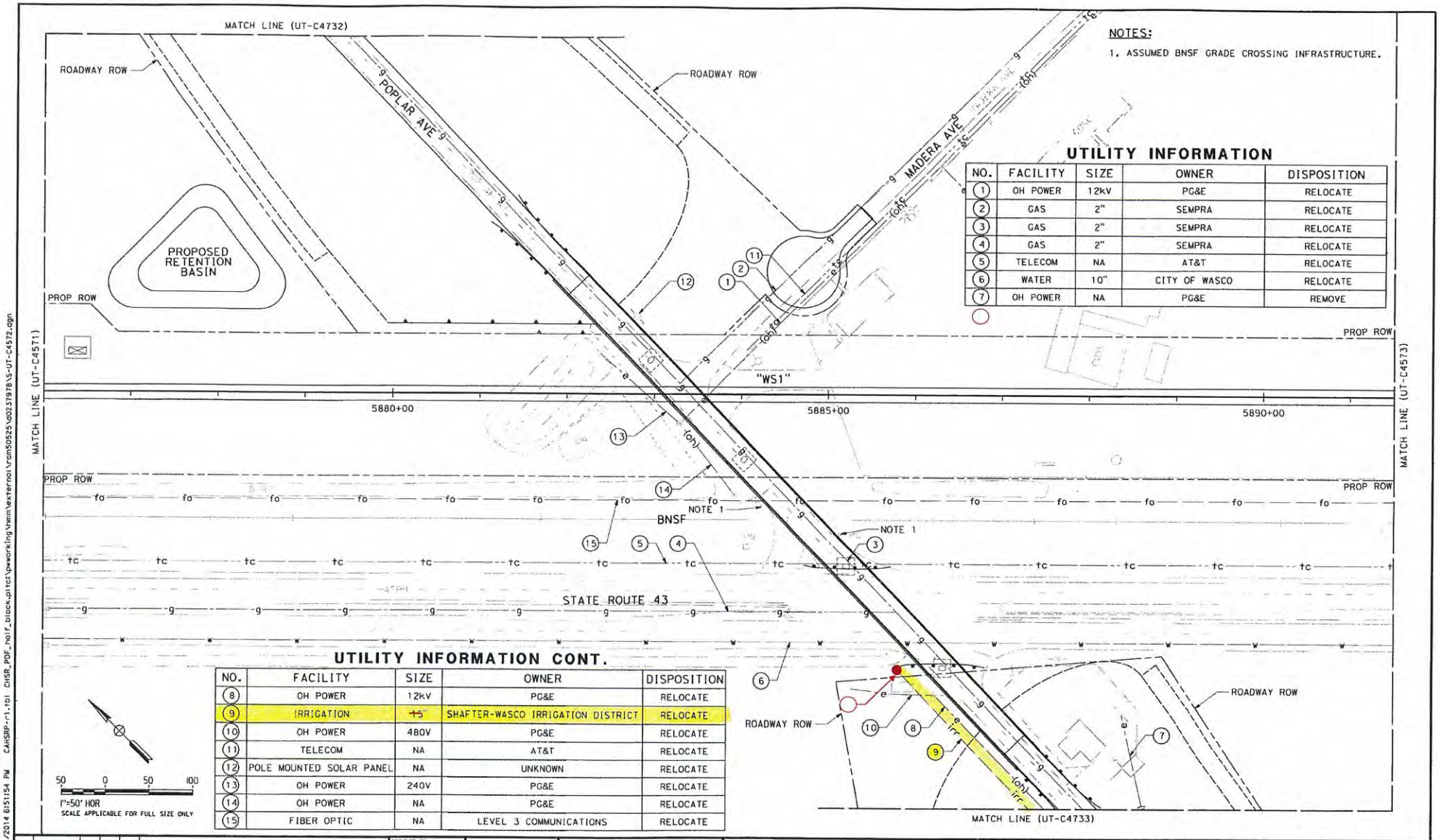


NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | GAS | 2" | SEMPRA | RELOCATE |
| 3 | GAS | 2" | SEMPRA | RELOCATE |
| 4 | GAS | 2" | SEMPRA | RELOCATE |
| 5 | TELECOM | NA | AT&T | RELOCATE |
| 6 | WATER | 10" | CITY OF WASCO | RELOCATE |
| 7 | OH POWER | NA | PG&E | REMOVE |

## UTILITY INFORMATION CONT.

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 8 | OH POWER | 12kV | PG&E | RELOCATE |
| 9 | IRRIGATION | ~~15~~" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 10 | OH POWER | 480V | PG&E | RELOCATE |
| 11 | TELECOM | NA | AT&T | RELOCATE |
| 12 | POLE MOUNTED SOLAR PANEL | NA | UNKNOWN | RELOCATE |
| 13 | OH POWER | 240V | PG&E | RELOCATE |
| 14 | OH POWER | NA | PG&E | RELOCATE |
| 15 | FIBER OPTIC | NA | LEVEL 3 COMMUNICATIONS | RELOCATE |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

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DATE 08/08/14

PROPOSED PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5876+00 TO 5891+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4572
SCALE AS SHOWN
SHEET NO. 81 OF 163

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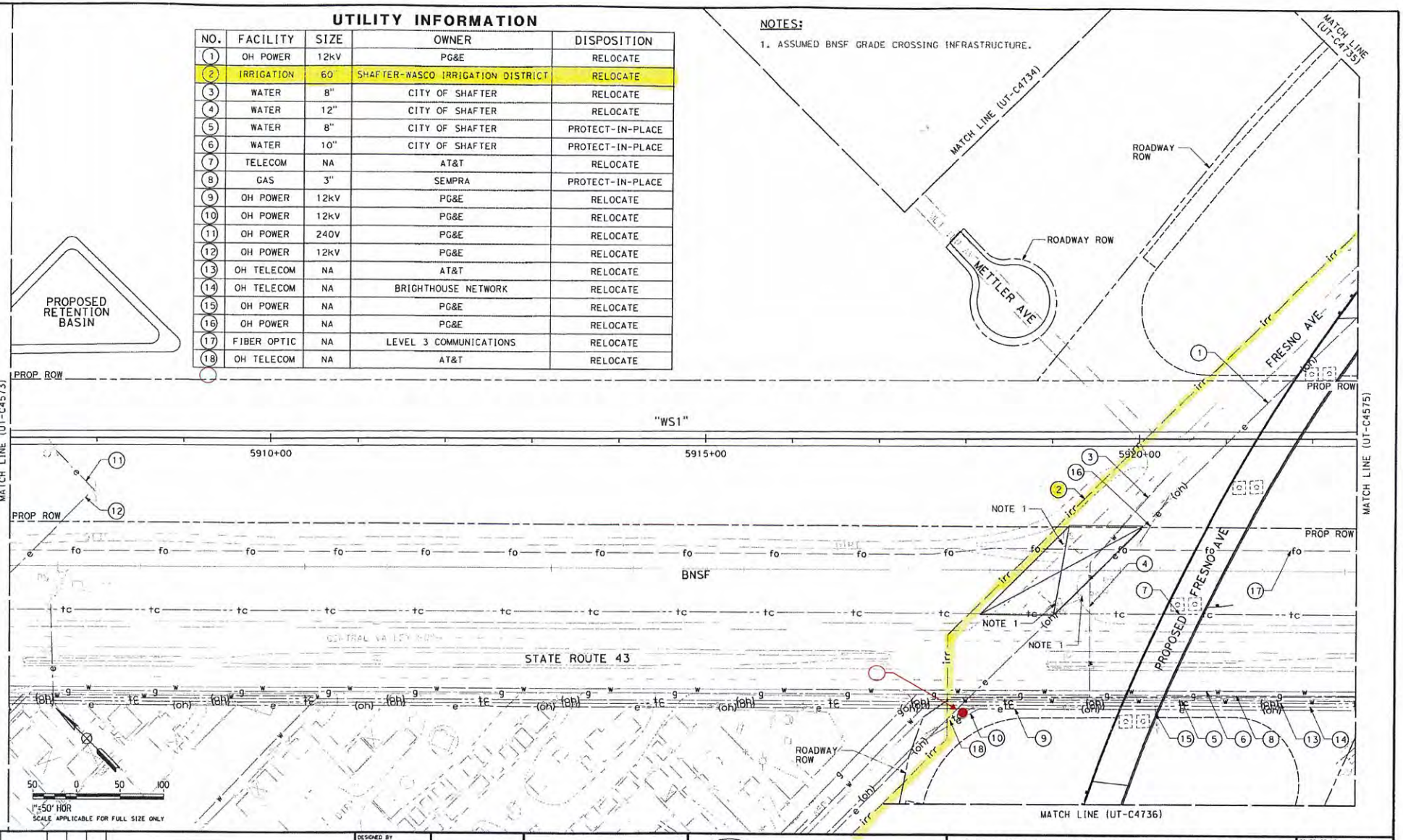
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | IRRIGATION | 60 | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 3 | WATER | 8" | CITY OF SHAFTER | RELOCATE |
| 4 | WATER | 12" | CITY OF SHAFTER | RELOCATE |
| 5 | WATER | 8" | CITY OF SHAFTER | PROTECT-IN-PLACE |
| 6 | WATER | 10" | CITY OF SHAFTER | PROTECT-IN-PLACE |
| 7 | TELECOM | NA | AT&T | RELOCATE |
| 8 | GAS | 3" | SEMPRA | PROTECT-IN-PLACE |
| 9 | OH POWER | 12kV | PG&E | RELOCATE |
| 10 | OH POWER | 12kV | PG&E | RELOCATE |
| 11 | OH POWER | 240V | PG&E | RELOCATE |
| 12 | OH POWER | 12kV | PG&E | RELOCATE |
| 13 | OH TELECOM | NA | AT&T | RELOCATE |
| 14 | OH TELECOM | NA | BRIGHTHOUSE NETWORK | RELOCATE |
| 15 | OH POWER | NA | PG&E | RELOCATE |
| 16 | OH POWER | NA | PG&E | RELOCATE |
| 17 | FIBER OPTIC | NA | LEVEL 3 COMMUNICATIONS | RELOCATE |
| 18 | OH TELECOM | NA | AT&T | RELOCATE |

NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.




| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY T. RAMIL
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IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

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URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5907+00 TO 5922+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4574
SCALE AS SHOWN
SHEET NO. 83 OF 163

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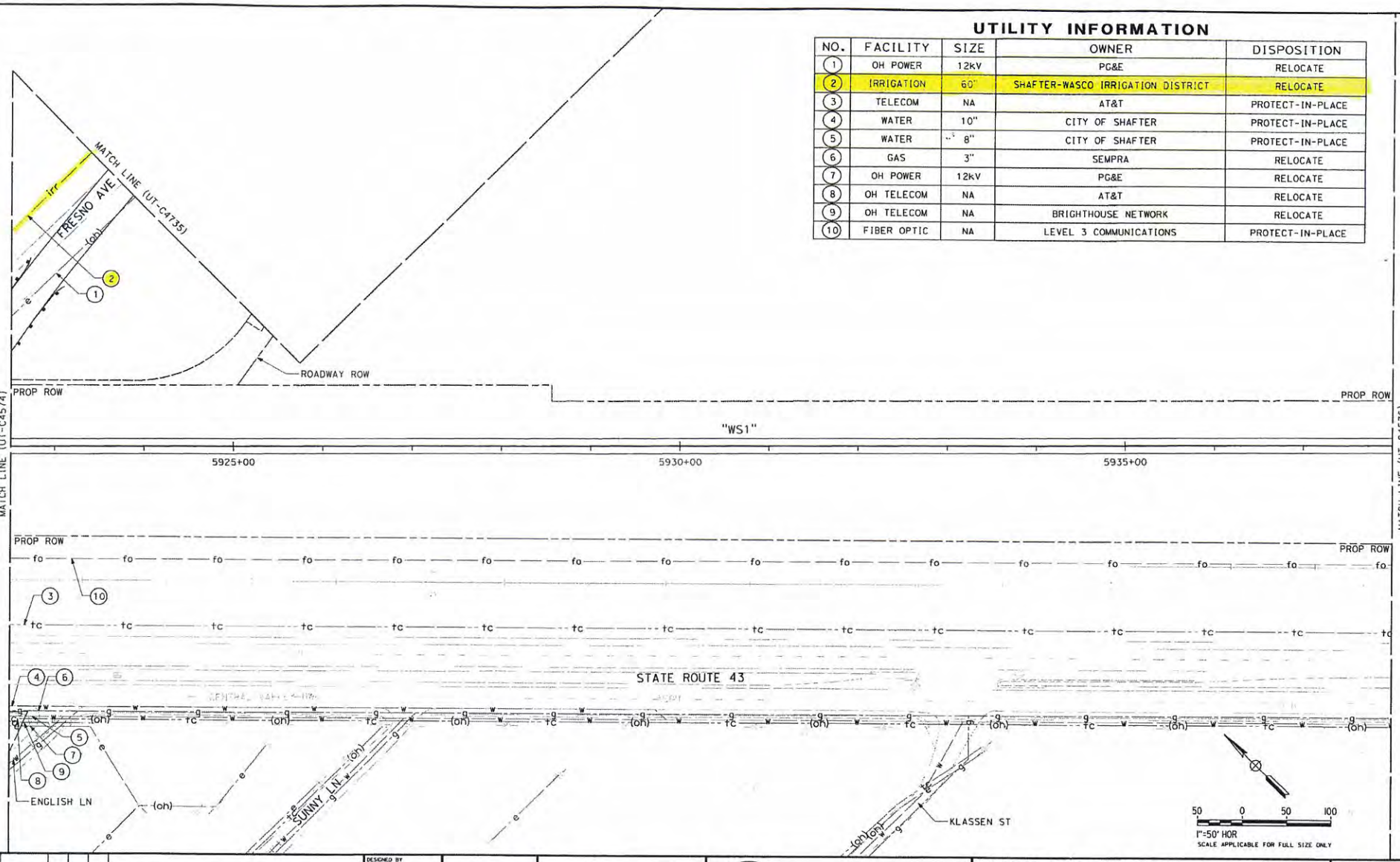
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | IRRIGATION | 60" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 3 | TELECOM | NA | AT&T | PROTECT-IN-PLACE |
| 4 | WATER | 10" | CITY OF SHAFTER | PROTECT-IN-PLACE |
| 5 | WATER | 8" | CITY OF SHAFTER | PROTECT-IN-PLACE |
| 6 | GAS | 3" | SEMPRA | RELOCATE |
| 7 | OH POWER | 12kV | PG&E | RELOCATE |
| 8 | OH TELECOM | NA | AT&T | RELOCATE |
| 9 | OH TELECOM | NA | BRIGHTHOUSE NETWORK | RELOCATE |
| 10 | FIBER OPTIC | NA | LEVEL 3 COMMUNICATIONS | PROTECT-IN-PLACE |

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|---|---|---|---|---|---|

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IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5922+50 TO 5938+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4575
SCALE AS SHOWN
SHEET NO. 84 OF 163

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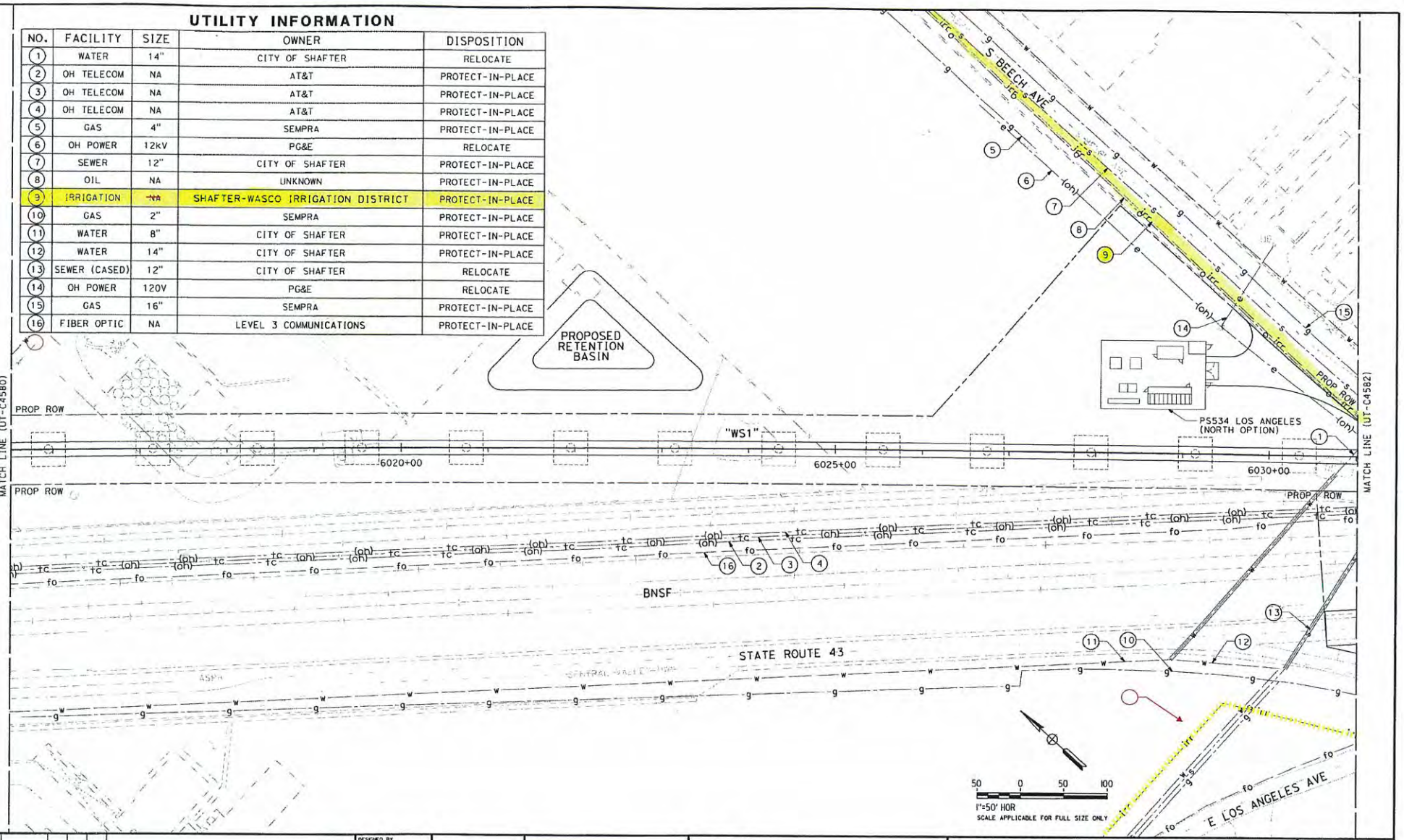
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | WATER | 14" | CITY OF SHAFTER | RELOCATE |
| 2 | OH TELECOM | NA | AT&T | PROTECT-IN-PLACE |
| 3 | OH TELECOM | NA | AT&T | PROTECT-IN-PLACE |
| 4 | OH TELECOM | NA | AT&T | PROTECT-IN-PLACE |
| 5 | GAS | 4" | SEMPRA | PROTECT-IN-PLACE |
| 6 | OH POWER | 12kV | PG&E | RELOCATE |
| 7 | SEWER | 12" | CITY OF SHAFTER | PROTECT-IN-PLACE |
| 8 | OIL | NA | UNKNOWN | PROTECT-IN-PLACE |
| 9 | IRRIGATION | ~~NA~~ | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |
| 10 | GAS | 2" | SEMPRA | PROTECT-IN-PLACE |
| 11 | WATER | 8" | CITY OF SHAFTER | PROTECT-IN-PLACE |
| 12 | WATER | 14" | CITY OF SHAFTER | PROTECT-IN-PLACE |
| 13 | SEWER (CASED) | 12" | CITY OF SHAFTER | RELOCATE |
| 14 | OH POWER | 120V | PG&E | RELOCATE |
| 15 | GAS | 16" | SEMPRA | PROTECT-IN-PLACE |
| 16 | FIBER OPTIC | NA | LEVEL 3 COMMUNICATIONS | PROTECT-IN-PLACE |

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IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN
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URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 6015+50 TO 6031+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4581
SCALE AS SHOWN
SHEET NO. 90 OF 163

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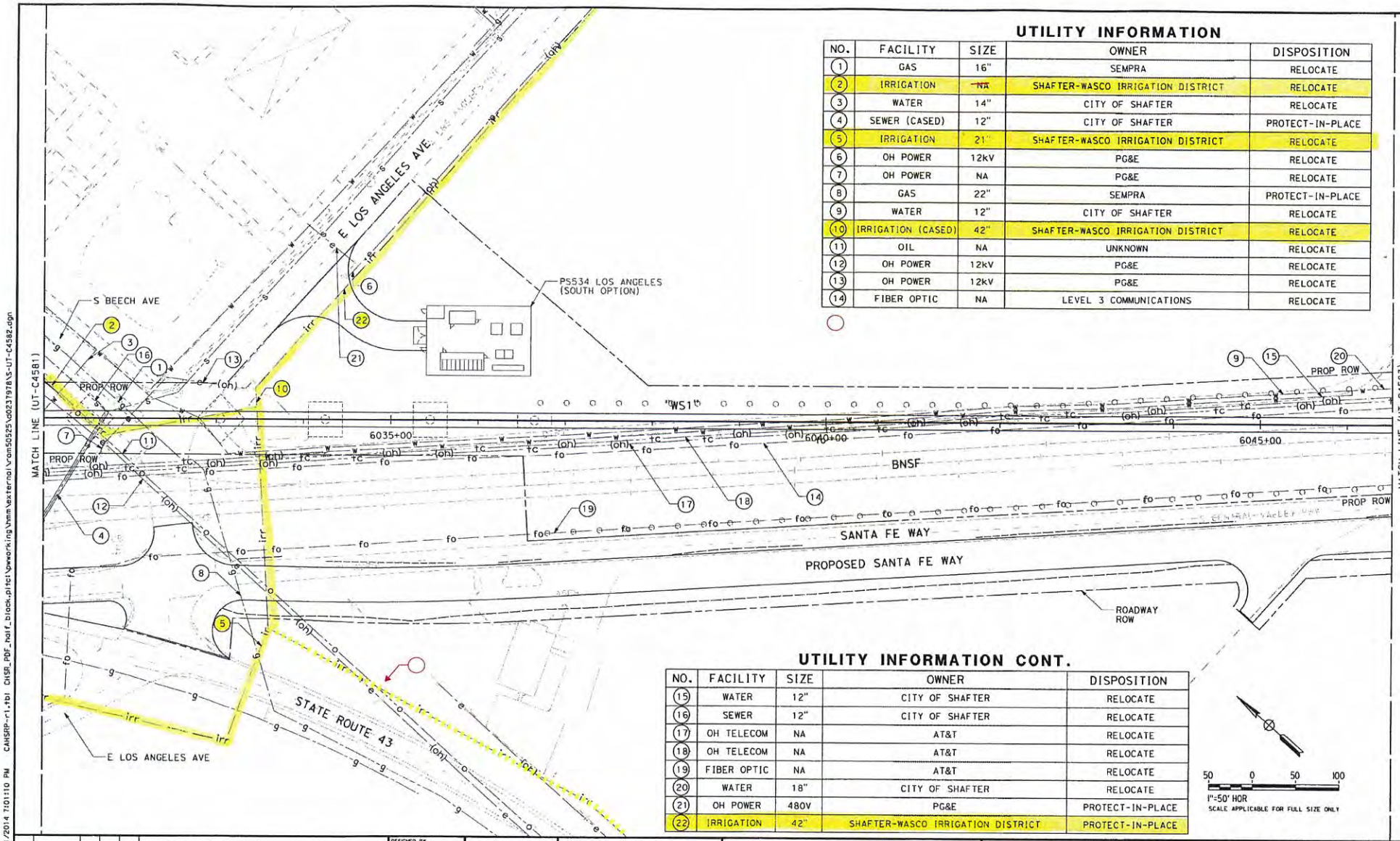


## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | GAS | 16" | SEMPRA | RELOCATE |
| 2 | IRRIGATION | ~~NA~~ | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 3 | WATER | 14" | CITY OF SHAFTER | RELOCATE |
| 4 | SEWER (CASED) | 12" | CITY OF SHAFTER | PROTECT-IN-PLACE |
| 5 | IRRIGATION | 21" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 6 | OH POWER | 12kV | PG&E | RELOCATE |
| 7 | OH POWER | NA | PG&E | RELOCATE |
| 8 | GAS | 22" | SEMPRA | PROTECT-IN-PLACE |
| 9 | WATER | 12" | CITY OF SHAFTER | RELOCATE |
| 10 | IRRIGATION (CASED) | 42" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 11 | OIL | NA | UNKNOWN | RELOCATE |
| 12 | OH POWER | 12kV | PG&E | RELOCATE |
| 13 | OH POWER | 12kV | PG&E | RELOCATE |
| 14 | FIBER OPTIC | NA | LEVEL 3 COMMUNICATIONS | RELOCATE |

## UTILITY INFORMATION CONT.

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 15 | WATER | 12" | CITY OF SHAFTER | RELOCATE |
| 16 | SEWER | 12" | CITY OF SHAFTER | RELOCATE |
| 17 | OH TELECOM | NA | AT&T | RELOCATE |
| 18 | OH TELECOM | NA | AT&T | RELOCATE |
| 19 | FIBER OPTIC | NA | AT&T | RELOCATE |
| 20 | WATER | 18" | CITY OF SHAFTER | RELOCATE |
| 21 | OH POWER | 480V | PG&E | PROTECT-IN-PLACE |
| 22 | IRRIGATION | 42" | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |

50 0 50 100
1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

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DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

LRS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 6031+00 TO 6046+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4582
SCALE AS SHOWN
SHEET NO. 91 OF 163

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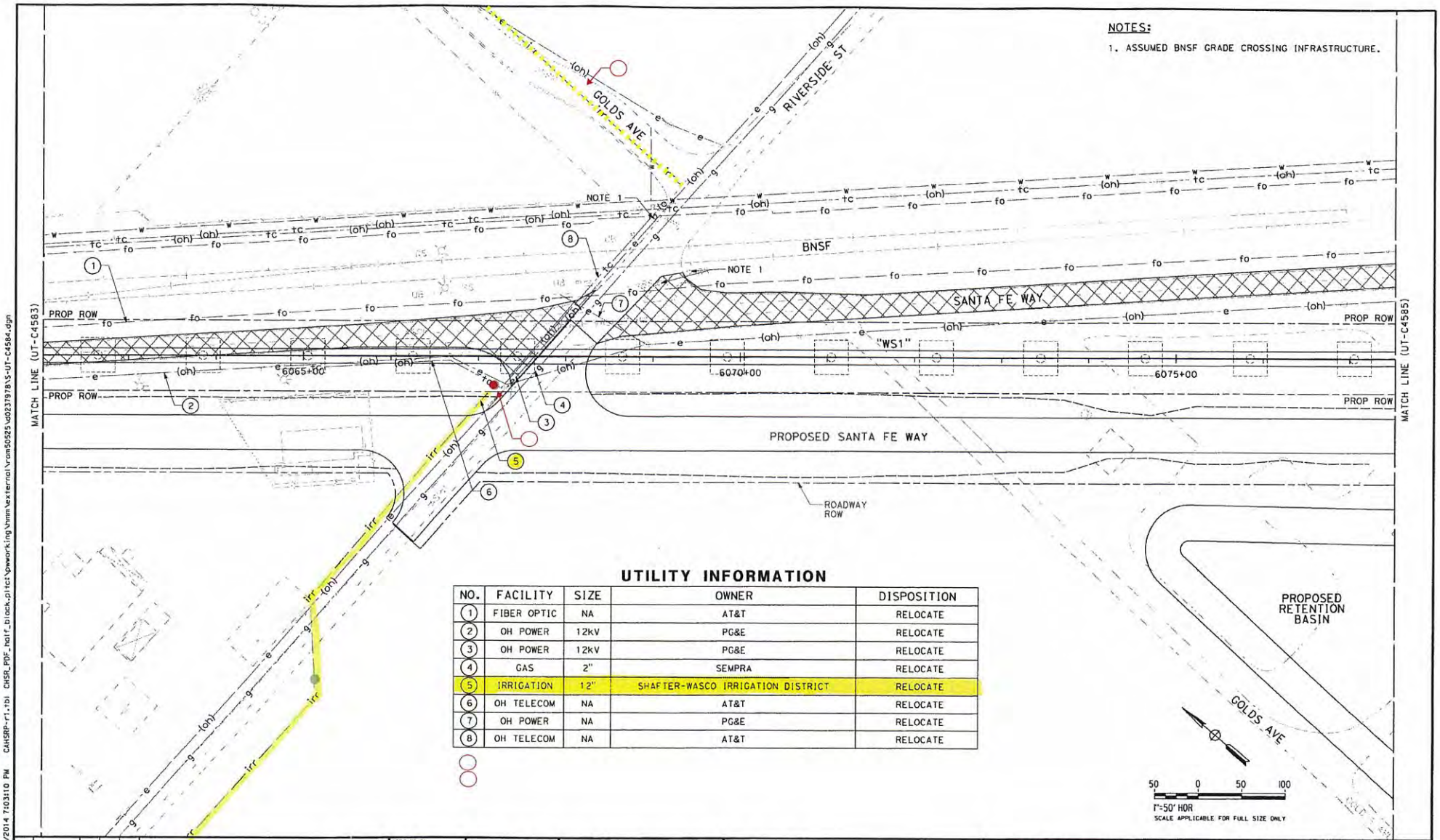


## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | FIBER OPTIC | NA | AT&T | RELOCATE |
| 2 | OH POWER | 12kV | PG&E | RELOCATE |
| 3 | OH POWER | 12kV | PG&E | RELOCATE |
| 4 | GAS | 2" | SEMPRA | RELOCATE |
| 5 | IRRIGATION | 12" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 6 | OH TELECOM | NA | AT&T | RELOCATE |
| 7 | OH POWER | NA | PG&E | RELOCATE |
| 8 | OH TELECOM | NA | AT&T | RELOCATE |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

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IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 6062+00 TO 6077+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4584
SCALE AS SHOWN
SHEET NO. 93 OF 163

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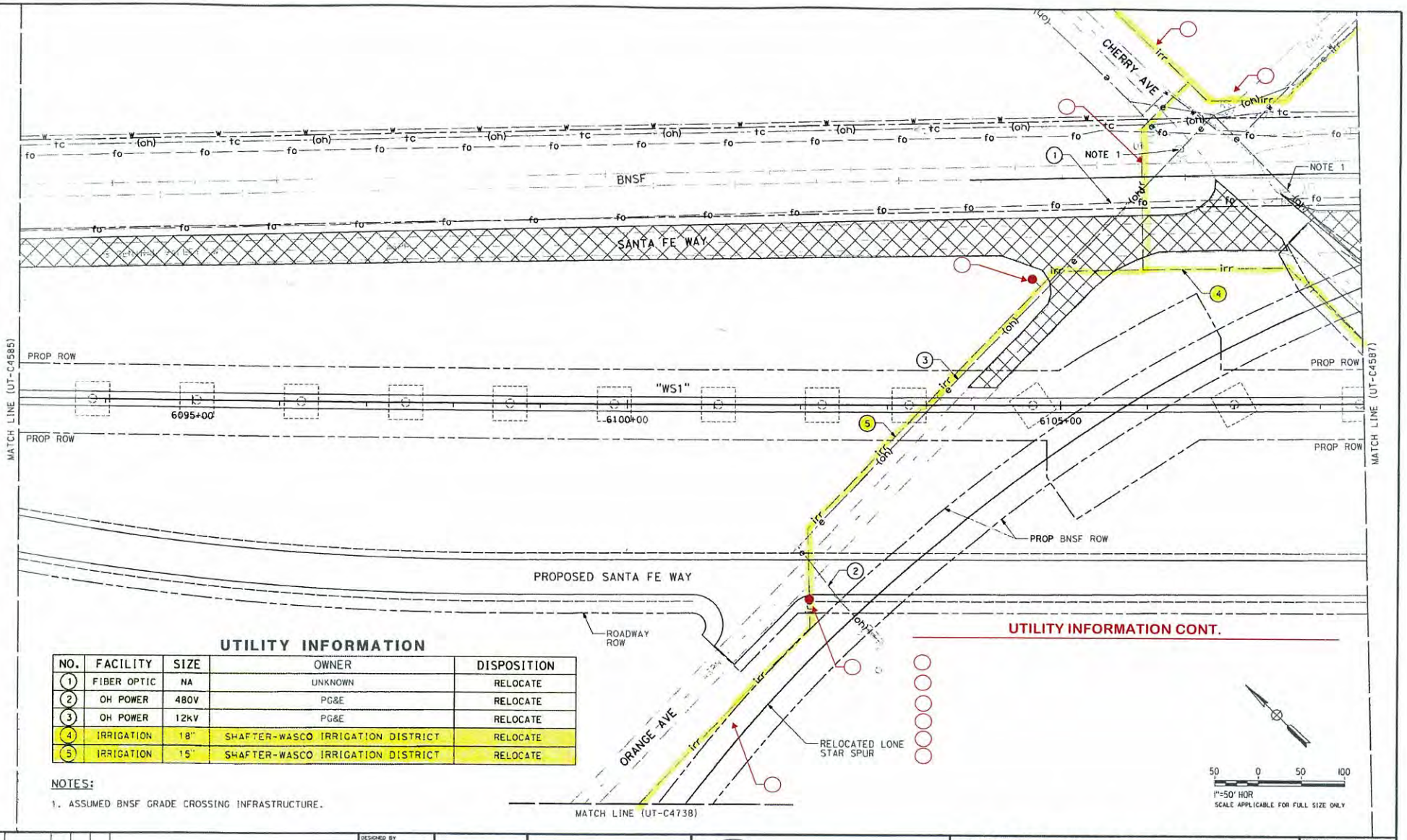


## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | FIBER OPTIC | NA | UNKNOWN | RELOCATE |
| 2 | OH POWER | 480V | PG&E | RELOCATE |
| 3 | OH POWER | 12kV | PG&E | RELOCATE |
| 4 | IRRIGATION | 18" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 5 | IRRIGATION | 15" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |

NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

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DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

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URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 6093+00 TO 6108+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4586
SCALE AS SHOWN
SHEET NO. 95 OF 163

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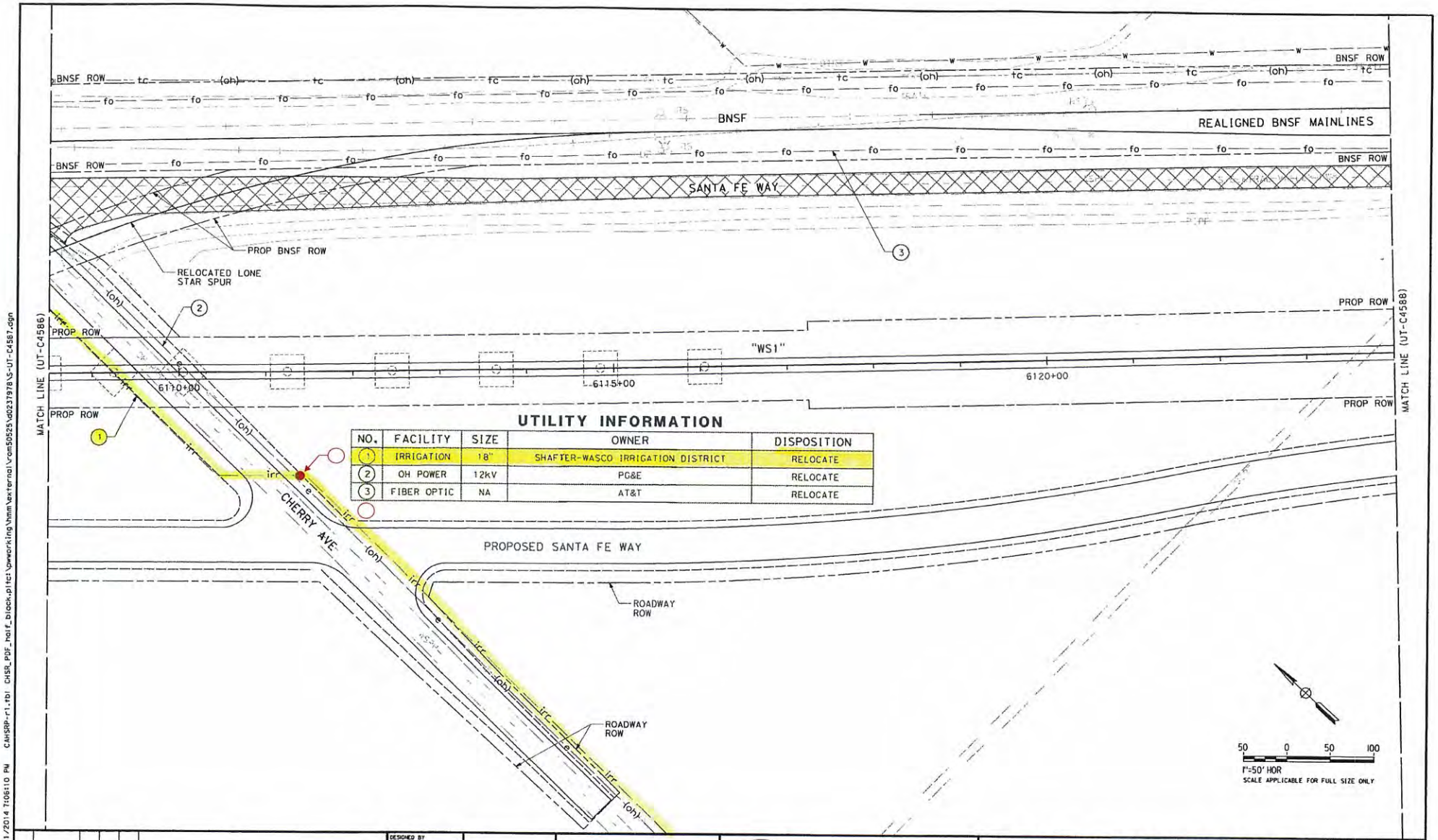


## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | IRRIGATION | 18" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 2 | OH POWER | 12kV | PG&E | RELOCATE |
| 3 | FIBER OPTIC | NA | AT&T | RELOCATE |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

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DATE 08/08/14

PROPOSED PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

URS HMM ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 6108+50 TO 6124+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4587
SCALE AS SHOWN
SHEET NO. 96 OF 163

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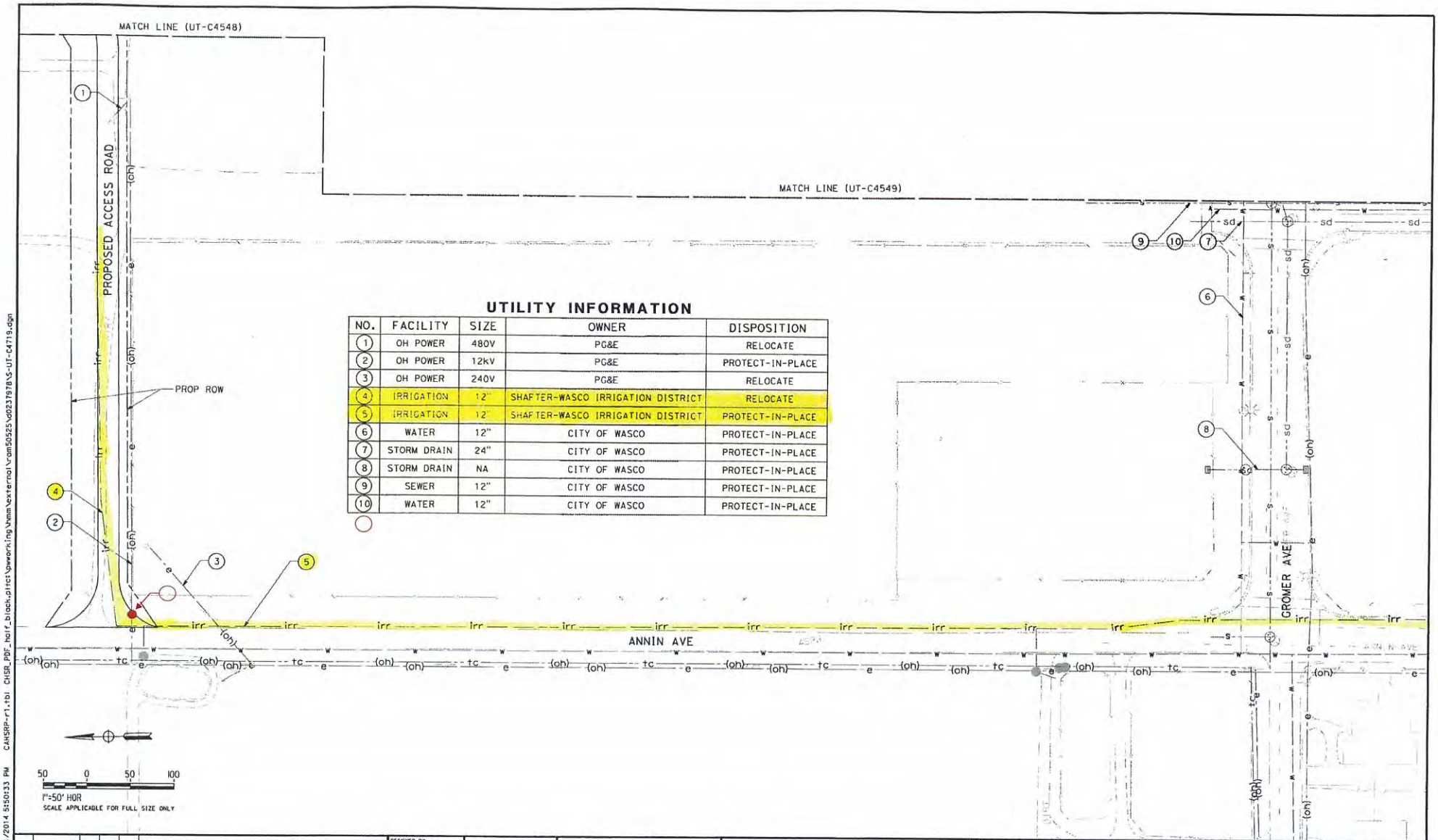


## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 480V | PG&E | RELOCATE |
| 2 | OH POWER | 12kV | PG&E | PROTECT-IN-PLACE |
| 3 | OH POWER | 240V | PG&E | RELOCATE |
| 4 | IRRIGATION | 12" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 5 | IRRIGATION | 12" | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |
| 6 | WATER | 12" | CITY OF WASCO | PROTECT-IN-PLACE |
| 7 | STORM DRAIN | 24" | CITY OF WASCO | PROTECT-IN-PLACE |
| 8 | STORM DRAIN | NA | CITY OF WASCO | PROTECT-IN-PLACE |
| 9 | SEWER | 12" | CITY OF WASCO | PROTECT-IN-PLACE |
| 10 | WATER | 12" | CITY OF WASCO | PROTECT-IN-PLACE |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

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CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
ANNIN AVE ACCESS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4719
SCALE AS SHOWN
SHEET NO. 127 OF 163

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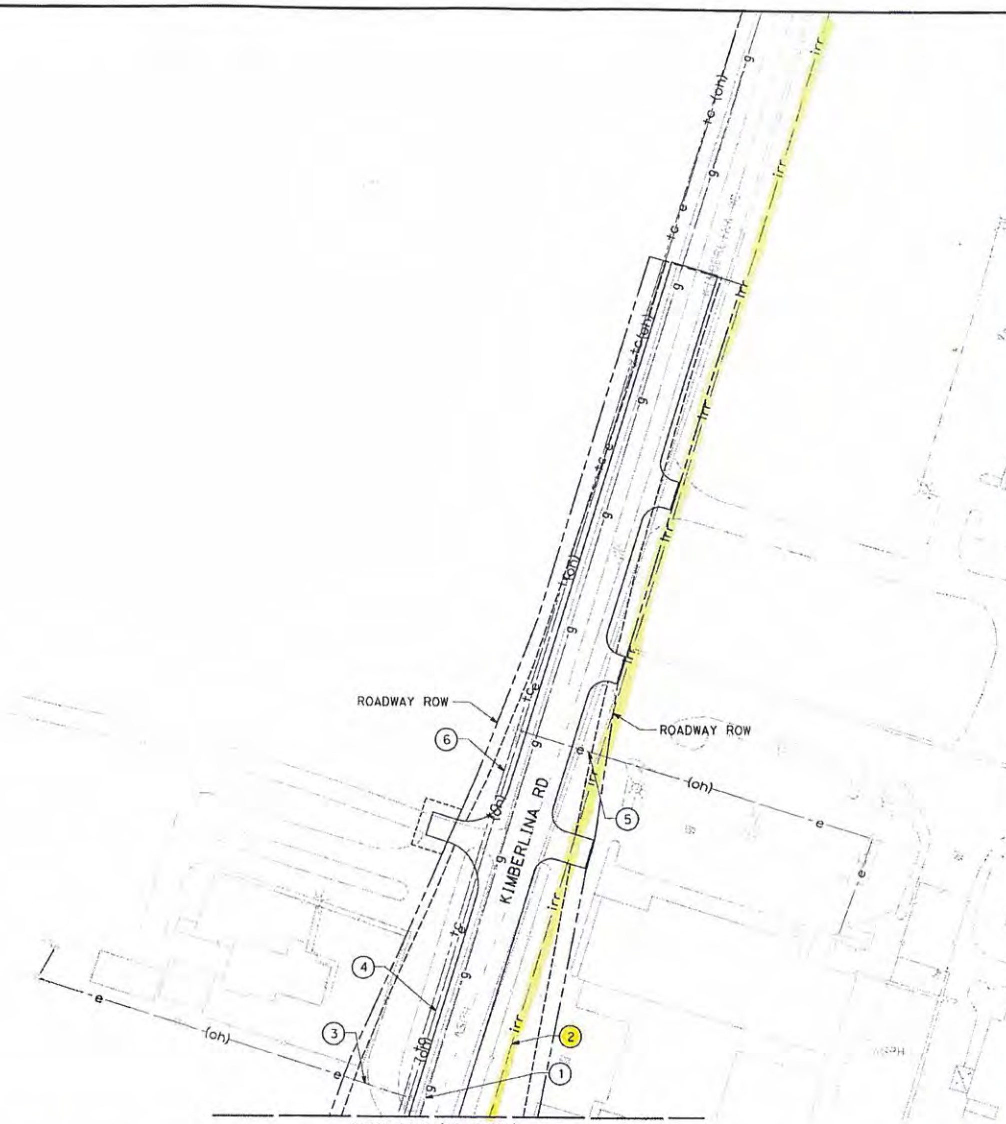
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | GAS | 2" | SEMPRA | RELOCATE |
| 2 | IRRIGATION | 66" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 3 | OH POWER | 12kV | PG&E | RELOCATE |
| 4 | OH POWER | 12kV | PG&E | RELOCATE |
| 5 | OH POWER | 12kV | PG&E | RELOCATE |
| 6 | TELECOM | NA | AT&T | RELOCATE |




| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN

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URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
KIMBERLINA ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4722
SCALE AS SHOWN
SHEET NO. 130 OF 163

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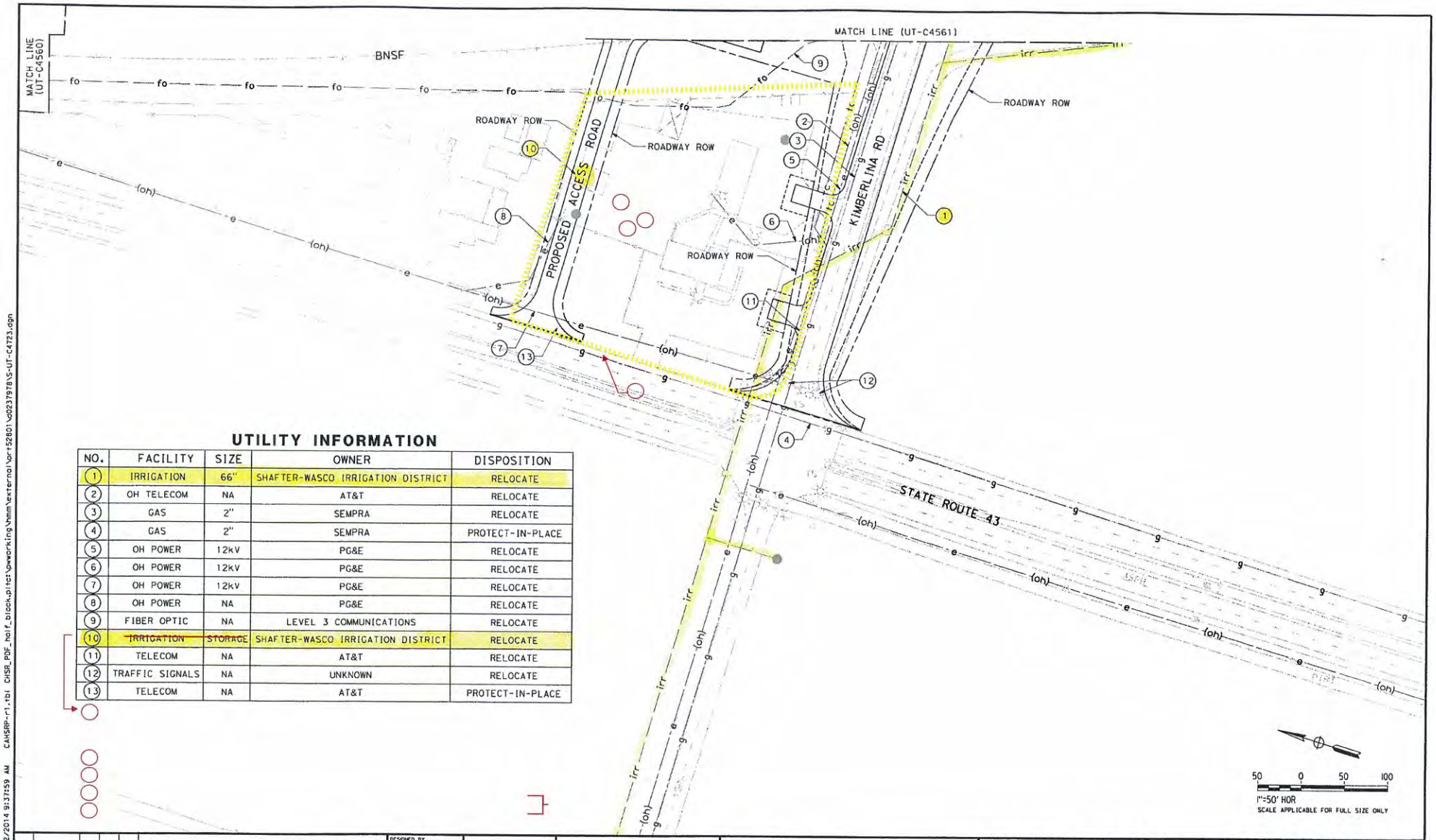


## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | IRRIGATION | 66" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 2 | OH TELECOM | NA | AT&T | RELOCATE |
| 3 | GAS | 2" | SEMPRA | RELOCATE |
| 4 | GAS | 2" | SEMPRA | PROTECT-IN-PLACE |
| 5 | OH POWER | 12kV | PG&E | RELOCATE |
| 6 | OH POWER | 12kV | PG&E | RELOCATE |
| 7 | OH POWER | 12kV | PG&E | RELOCATE |
| 8 | OH POWER | NA | PG&E | RELOCATE |
| 9 | FIBER OPTIC | NA | LEVEL 3 COMMUNICATIONS | RELOCATE |
| 10 | ~~IRRIGATION~~ | ~~STORAGE~~ | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 11 | TELECOM | NA | AT&T | RELOCATE |
| 12 | TRAFFIC SIGNALS | NA | UNKNOWN | RELOCATE |
| 13 | TELECOM | NA | AT&T | PROTECT-IN-PLACE |

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
KIMBERLINA ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4723
SCALE AS SHOWN
SHEET NO. 131 OF 163

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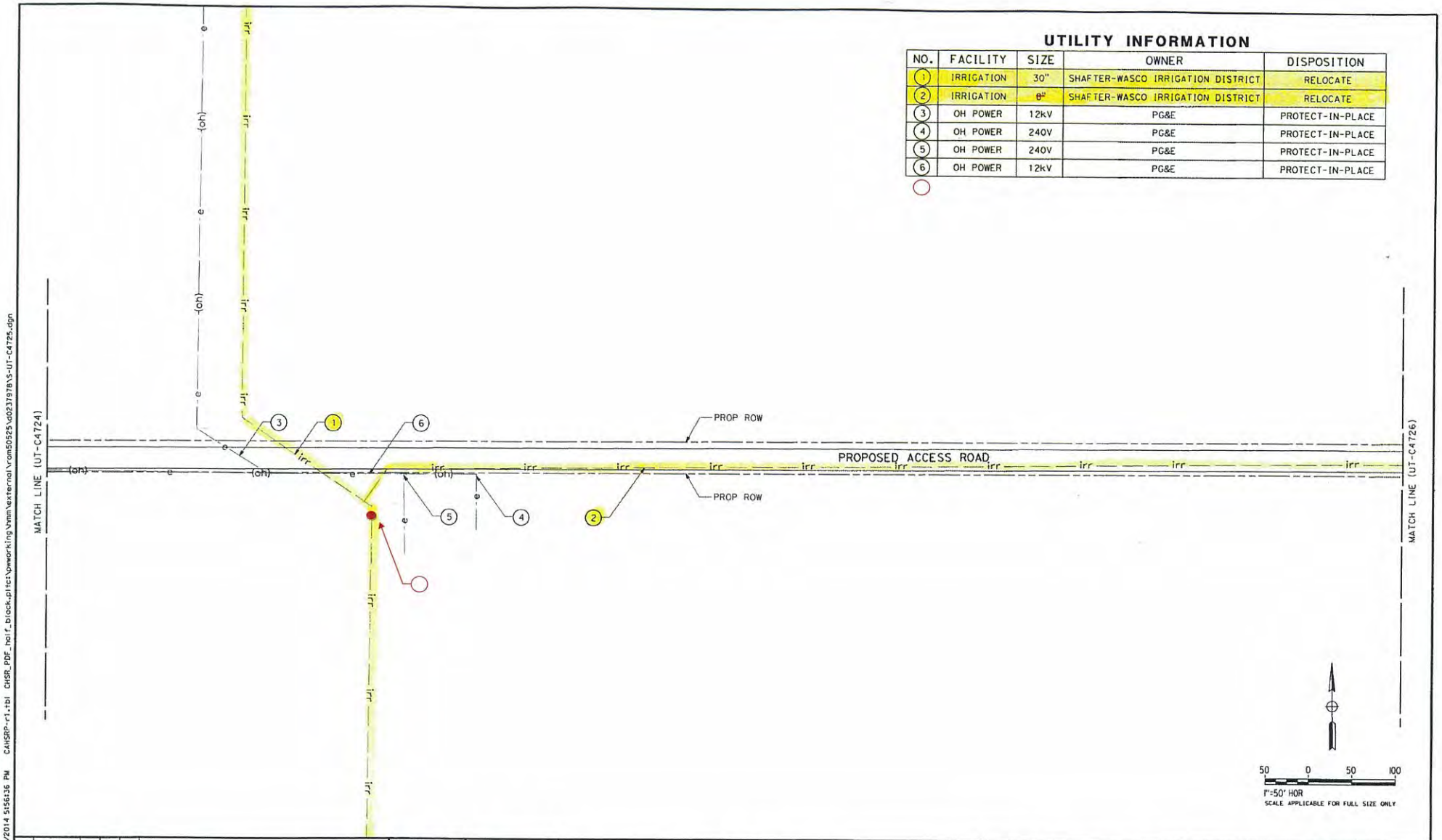
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | IRRIGATION | 30" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 2 | IRRIGATION | 8" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 3 | OH POWER | 12kV | PG&E | PROTECT-IN-PLACE |
| 4 | OH POWER | 240V | PG&E | PROTECT-IN-PLACE |
| 5 | OH POWER | 240V | PG&E | PROTECT-IN-PLACE |
| 6 | OH POWER | 12kV | PG&E | PROTECT-IN-PLACE |

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
DRESSER AVENUE ACCESS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4725
SCALE AS SHOWN
SHEET NO. 133 OF 163

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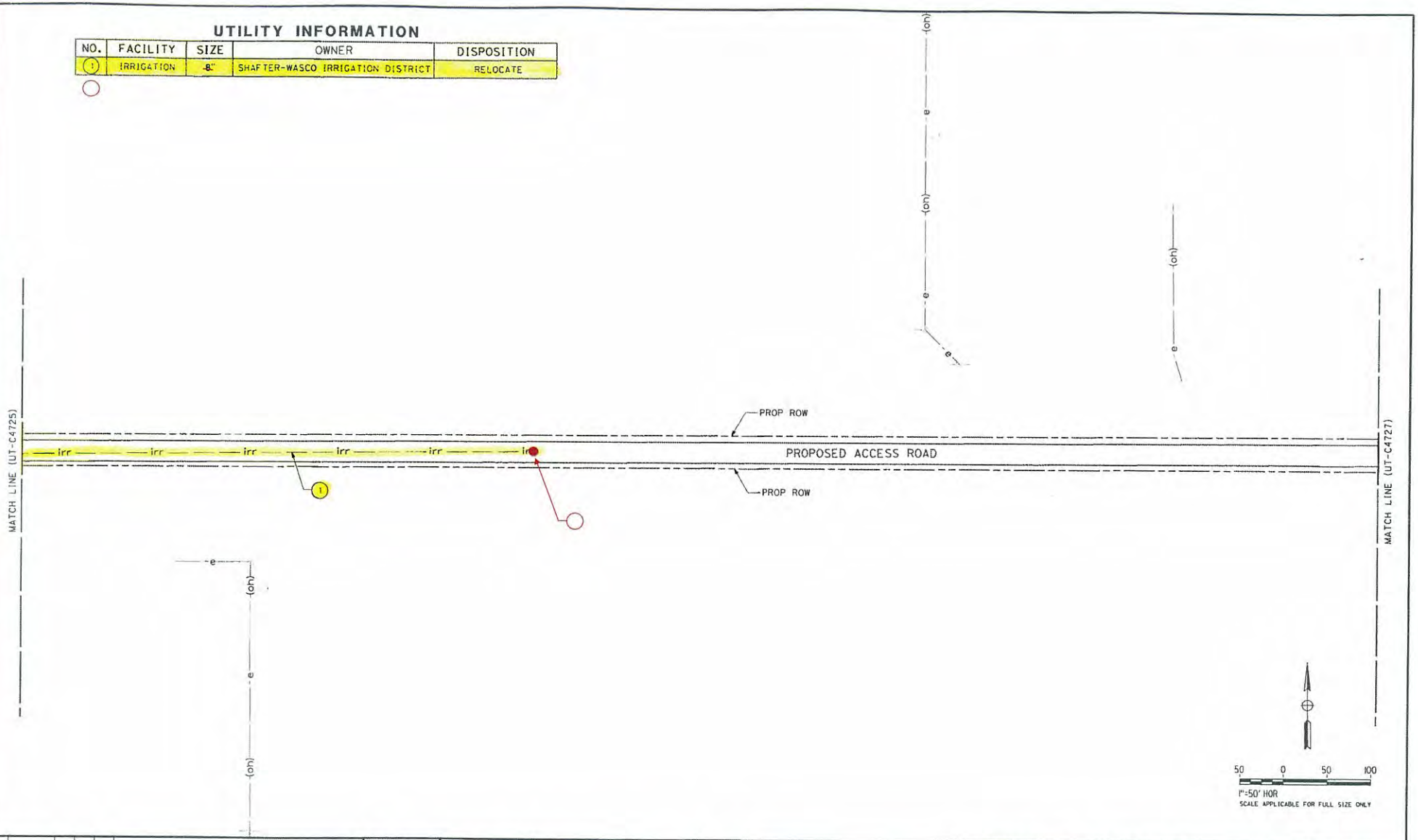
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | IRRIGATION | 8" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
DRESSER AVENUE ACCESS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4726
SCALE AS SHOWN
SHEET NO. 134 OF 163

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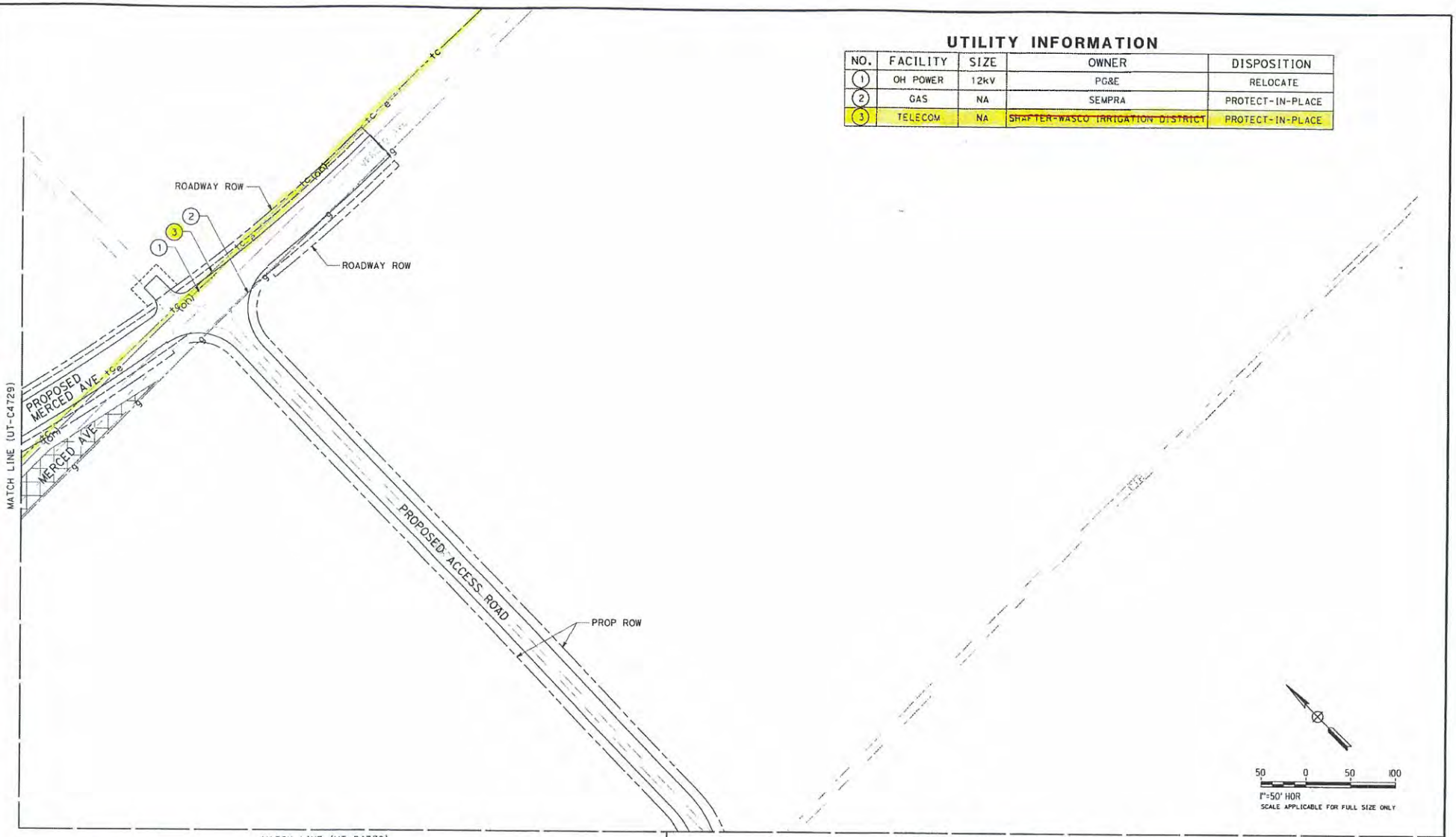
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | GAS | NA | SEMPRA | PROTECT-IN-PLACE |
| 3 | TELECOM | NA | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
MERCED AVENUE

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4731
SCALE AS SHOWN
SHEET NO. 139 OF 163

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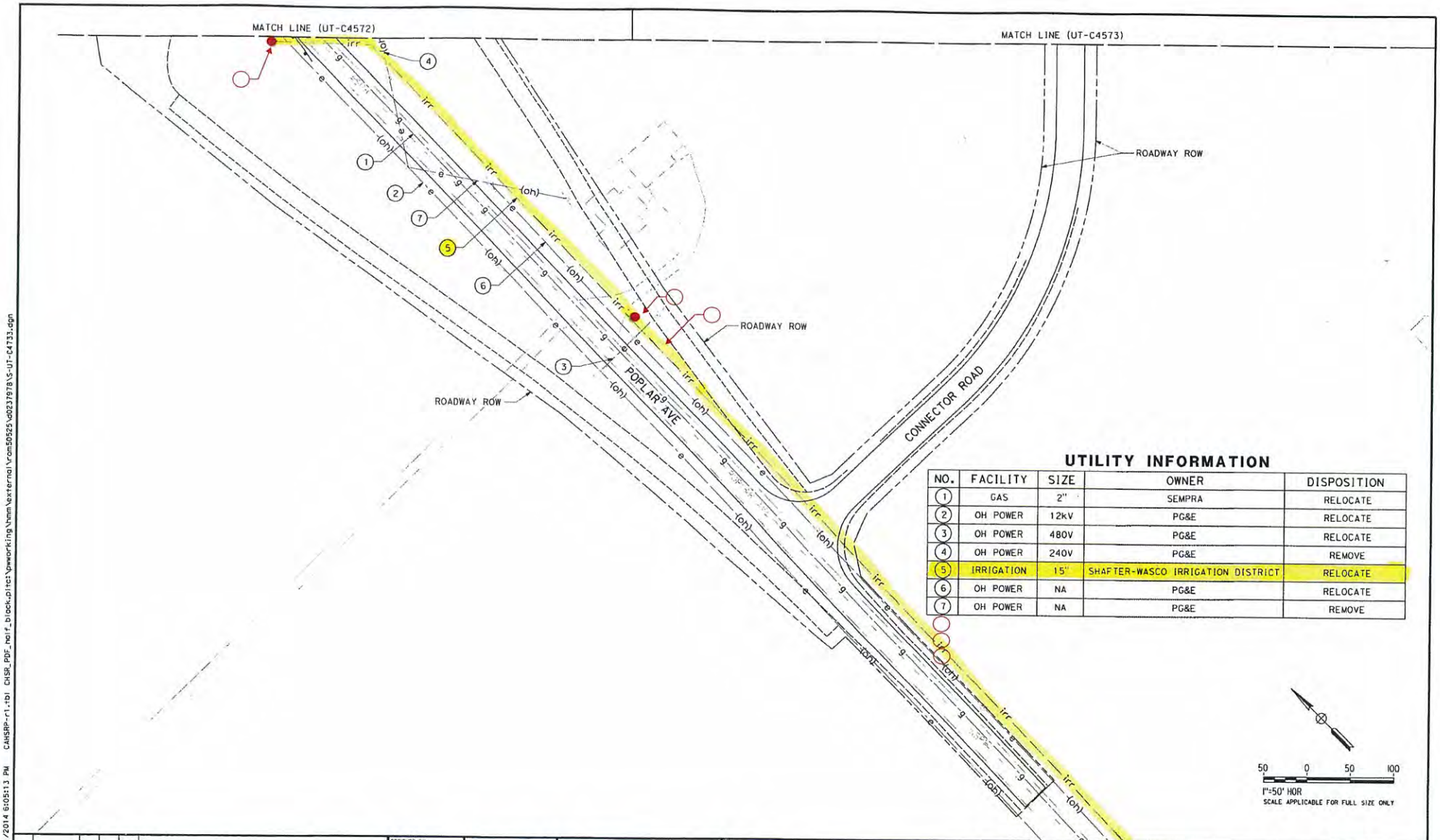


## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | GAS | 2" | SEMPRA | RELOCATE |
| 2 | OH POWER | 12kV | PG&E | RELOCATE |
| 3 | OH POWER | 480V | PG&E | RELOCATE |
| 4 | OH POWER | 240V | PG&E | REMOVE |
| 5 | IRRIGATION | 15" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 6 | OH POWER | NA | PG&E | RELOCATE |
| 7 | OH POWER | NA | PG&E | REMOVE |

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URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
POPLAR AVENUE

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4733
SCALE AS SHOWN
SHEET NO. 141 OF 163

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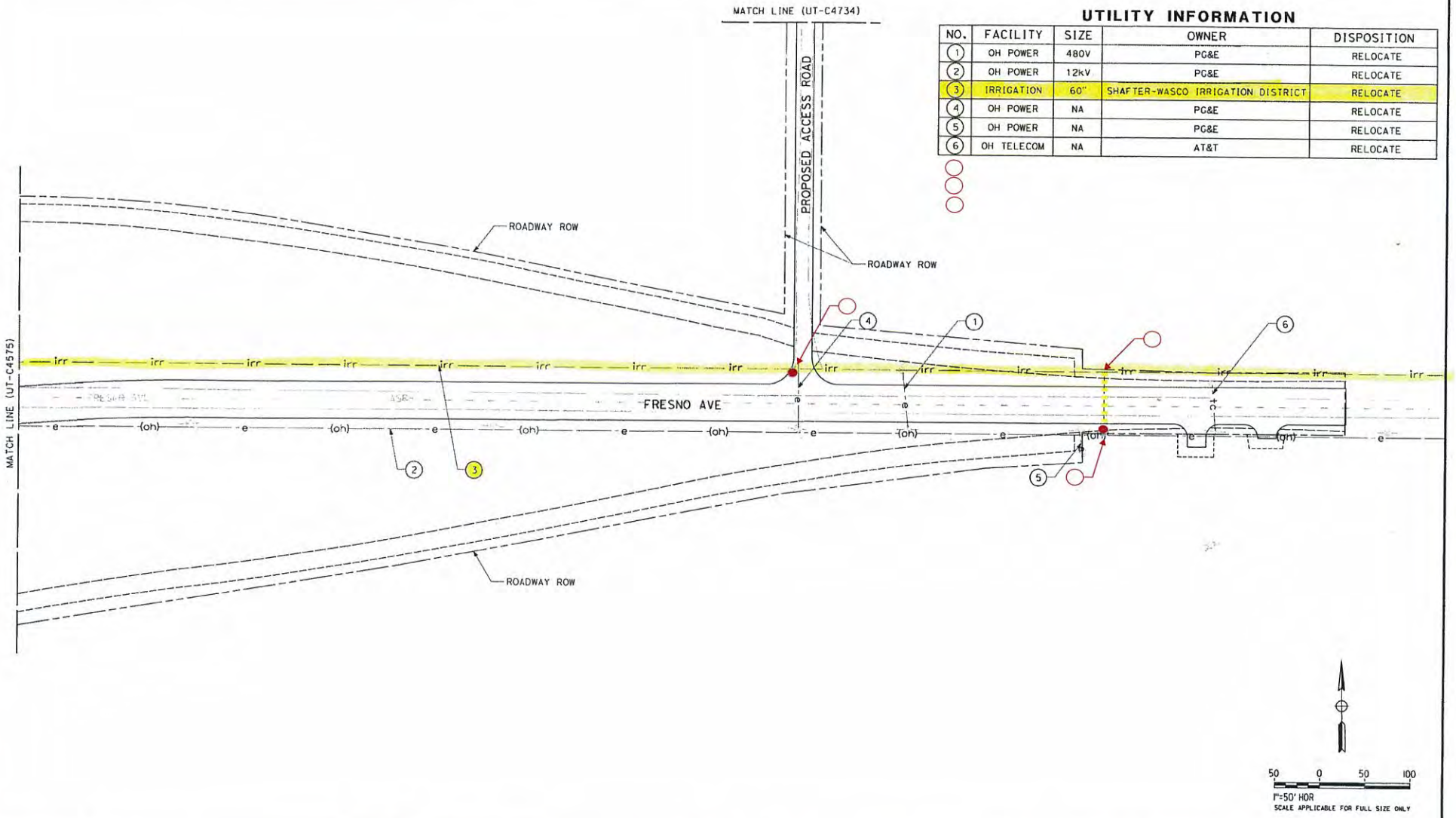
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 480V | PG&E | RELOCATE |
| 2 | OH POWER | 12kV | PG&E | RELOCATE |
| 3 | IRRIGATION | 60" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 4 | OH POWER | NA | PG&E | RELOCATE |
| 5 | OH POWER | NA | PG&E | RELOCATE |
| 6 | OH TELECOM | NA | AT&T | RELOCATE |

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URS | HMM | ARUP

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
FRESNO AVENUE

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4735
SCALE AS SHOWN
SHEET NO. 143 OF 163

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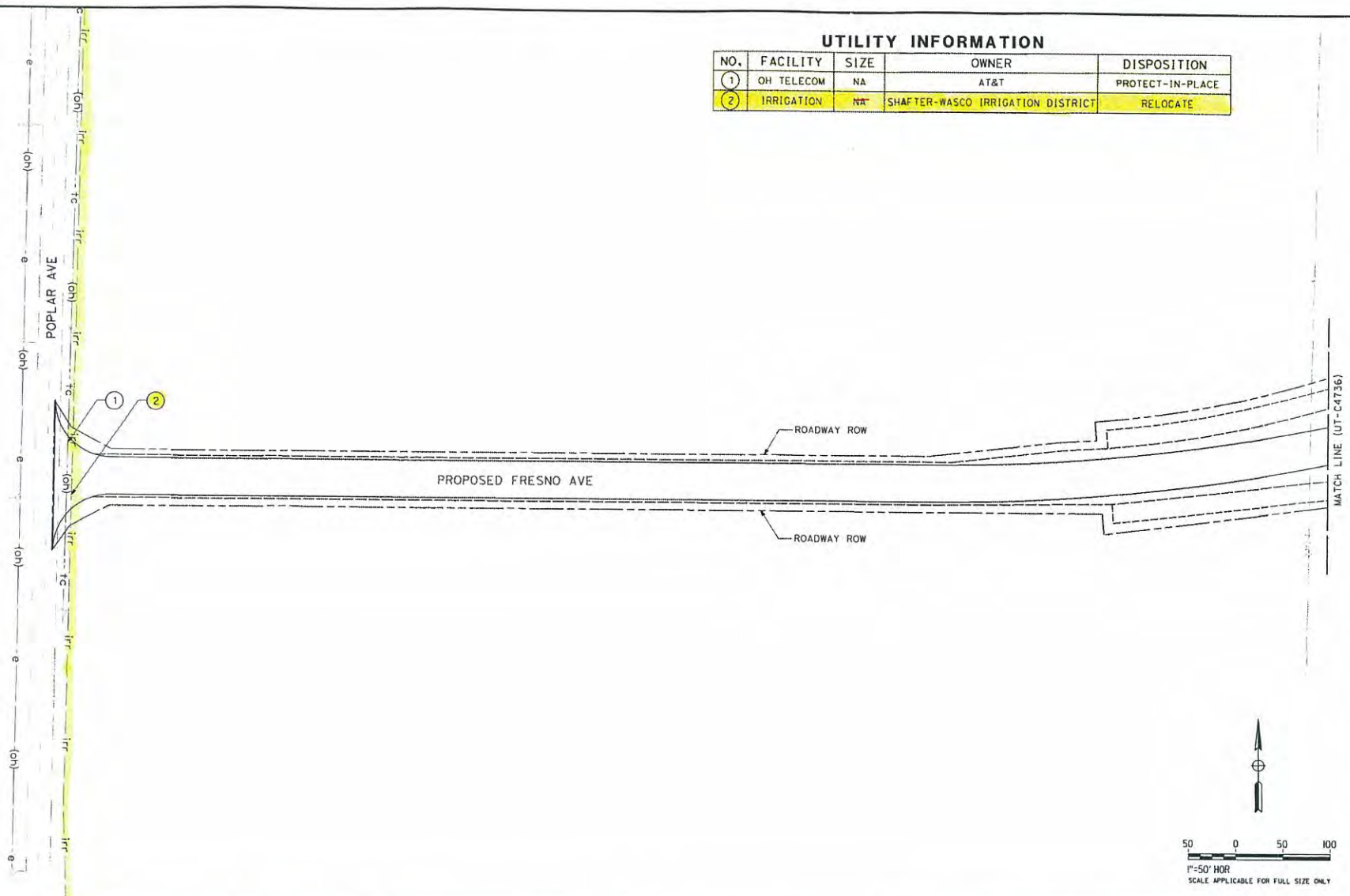
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH TELECOM | NA | AT&T | PROTECT-IN-PLACE |
| 2 | IRRIGATION | NA | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
FRESNO AVENUE

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4737
SCALE AS SHOWN
SHEET NO. 145 OF 163

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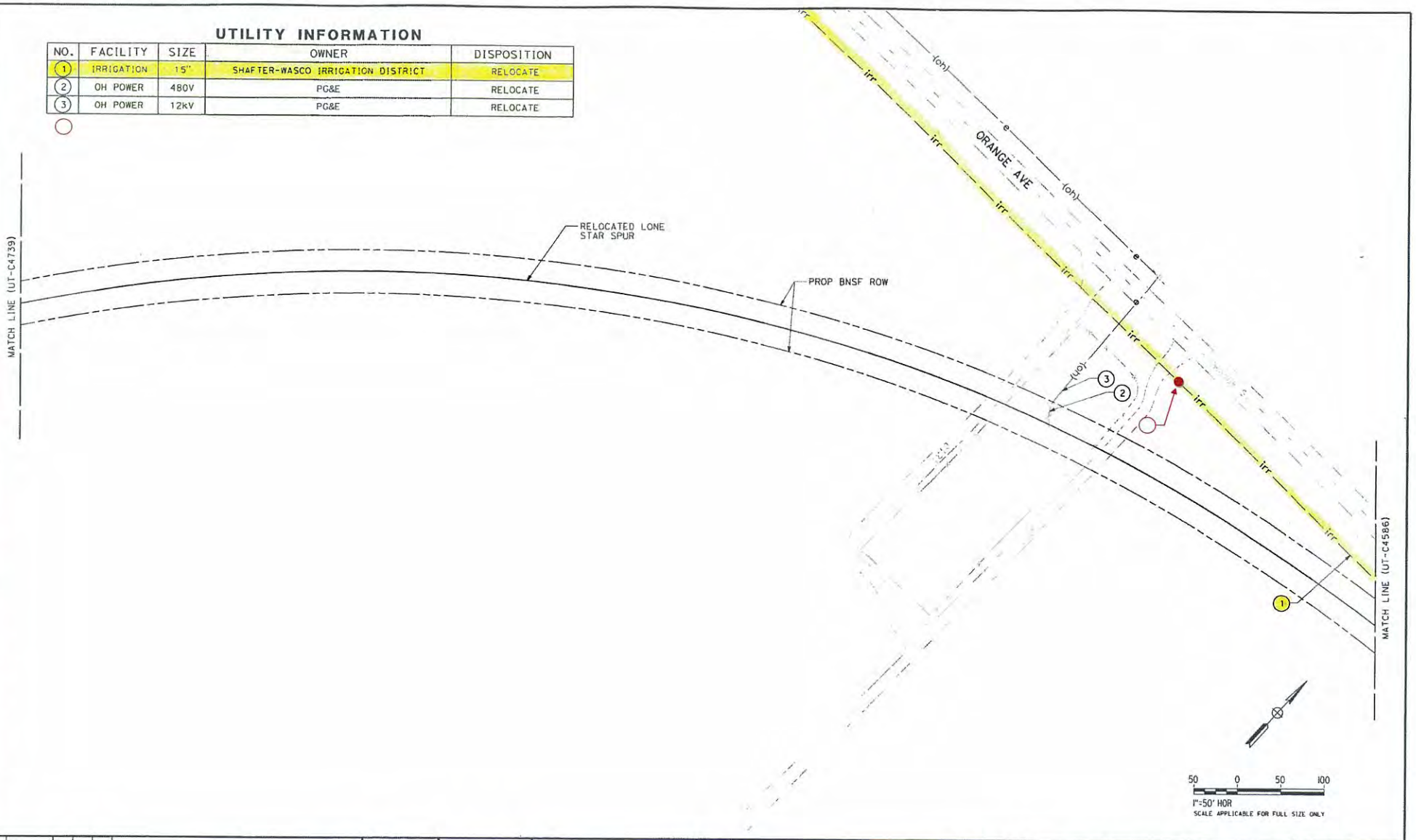
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | IRRIGATION | 15" | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE |
| 2 | OH POWER | 480V | PG&E | RELOCATE |
| 3 | OH POWER | 12kV | PG&E | RELOCATE |

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
RELOCATED LONE STAR SPUR

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4738
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SHEET NO. 146 OF 163

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P.O. Box 81435
Bakersfield, CA 93380-1435
Administration
Telephone: 661-393-2696
Facsimile: 661-393-6884

33380 Cawelo Avenue
Bakersfield, CA 93308-9575
Water Orders and Operations
Telephone: 661-393-3361
www.northkernwsd.com

# NORTH KERN WATER STORAGE DISTRICT

November 25, 2014

Mr. Thomas Grau (Via E-mail)
URS/HMM/ARUP Joint Venture
2870 Gateway Oaks Drive, Suite 150
Sacramento, California 95833

Subject: California High-Speed Train Project
Contract No. HSR 13-11
RE: HSR-FB-CP 4-Composite Utility Plans-NKWSD

Dear Mr. Grau:

In August 2014, the North Kern Water Storage District ("District") received the Composite Utility Plans for the California High-Speed Rail Project (the Plans), Fresno to Bakersfield Contract Package 4, along with your request for this District's review of each of the drawings. The Plans are understood to be at the 15% level of design and are intended to identify and depict potential conflicts between the proposed rail alignment and the District's existing "pipeline" facilities. This letter is to transmit the District's comments on the 15% design Plans for the "pipeline" conflicts. It is understood that conflicts with District "canals" will be covered on other HSRA drawings that the Authority will issue at a later date.

Review of the Plans consisted of comparing the maps and figures identifying the potential conflicts between District facilities and the proposed rail alignment which the District submitted to the High-Speed Rail Authority (HSRA) in June 2014. Upon review of each drawing and the Utility Information table on each sheet, corrections have been made to address deficiencies which were identified. In particular, while the Plans captured conflicts with existing pipelines, they did not address the facilities associated with the pipelines, such as lift stations and turnouts, all of which would be impacted by the proposed rail alignment. Accordingly, these facilities have been identified on the marked up plans.

Missing facilities and incorrect information have been identified by the District in red on each drawing. Additionally, conflicts with canals (reference Figure 2A, 3A, 4A, 2B, 3B and 4B of the June submittal), future facilities (reference Figure 7 of the June submittal) and operational conflicts (reference Figure 8A, 8B, and 8C of the June submittal) have not been reflected in the Plans reviewed. Such conflicts have a potential for impacting potential relocation of project facilities, not identified on the 15% design plans. We anticipate that these corrections and the missing information will be noted and addressed in forthcoming design plans.

RFP No.: HSR 14-32 - 08/07/2015

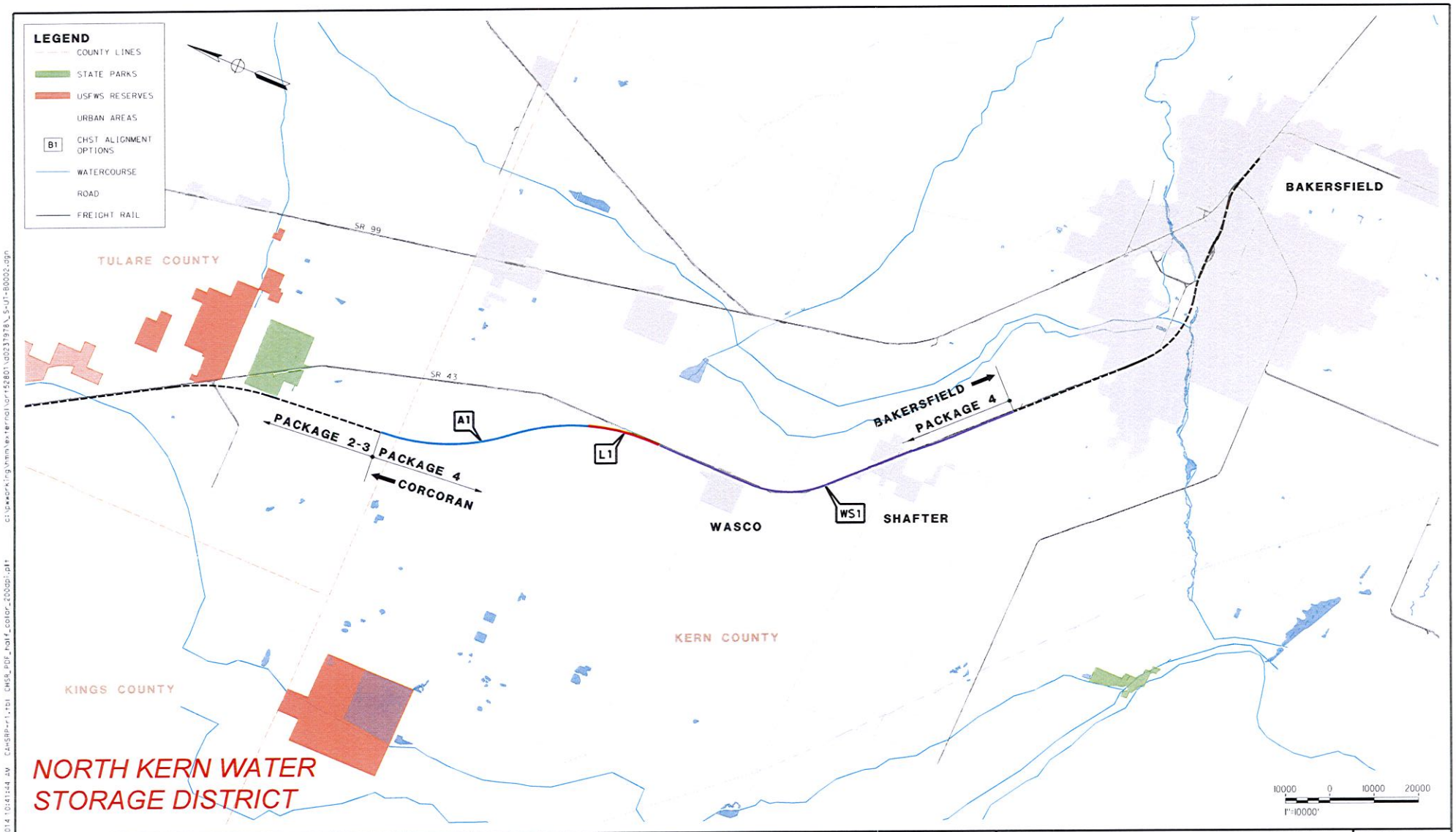
If you have any questions or require anything else, please call me (at 661-758-5113) or Ms. Isela Medina (at 661-327-7601).

Very truly yours,

RICHARD DIAMOND
General Manager

CC: Isela Medina, GEI Consultants, Inc.
Enclosure

RFP No.: HSR 14-32 - 08/07/2015

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DATE 08/08/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4
UTILITIES
COMPOSITE UTILITY PLAN
ALIGNMENT LOCATION MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-B0002
SCALE AS SHOWN
SHEET NO. 1 OF 163

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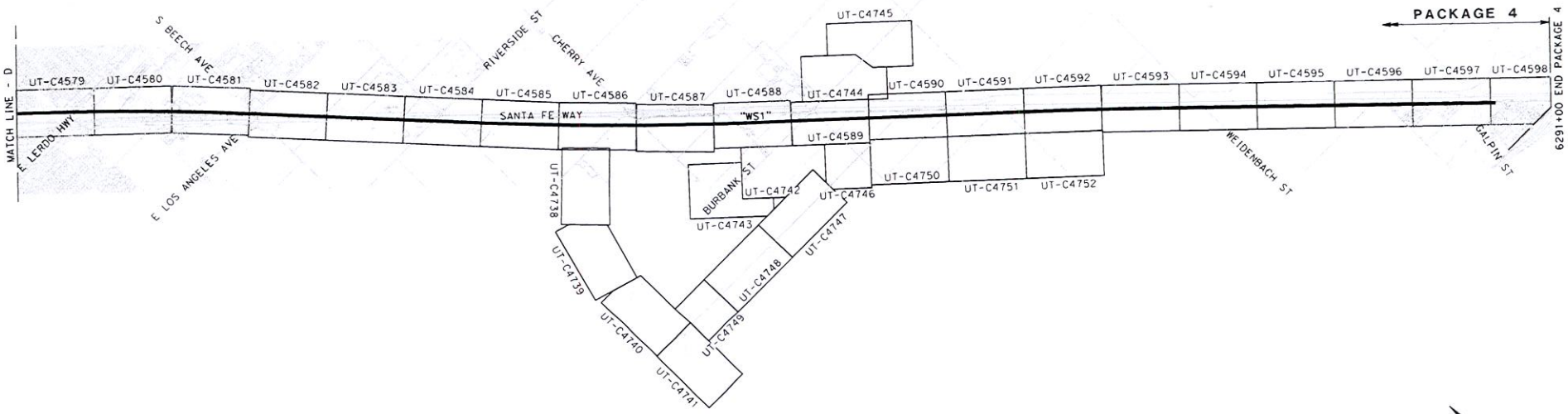


NORTH KERN WATER STORAGE DISTRICT

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1"=1000' HOR
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4
UTILITIES
COMPOSITE UTILITY PLAN
KEY MAP (SHEET 3 OF 3)

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-B0031
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SHEET NO. 8 OF 163

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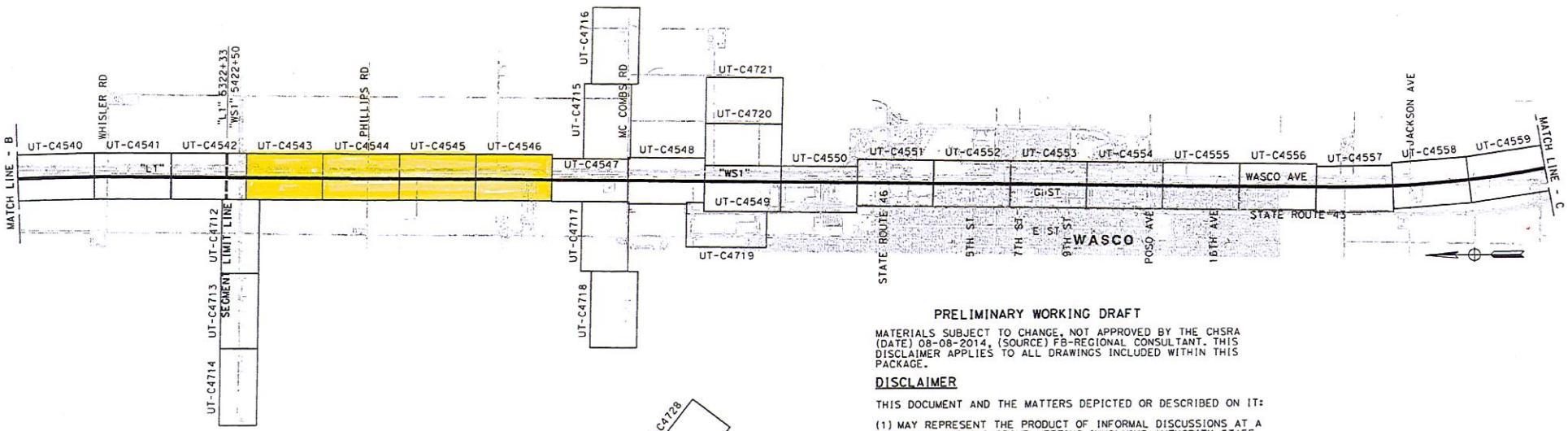


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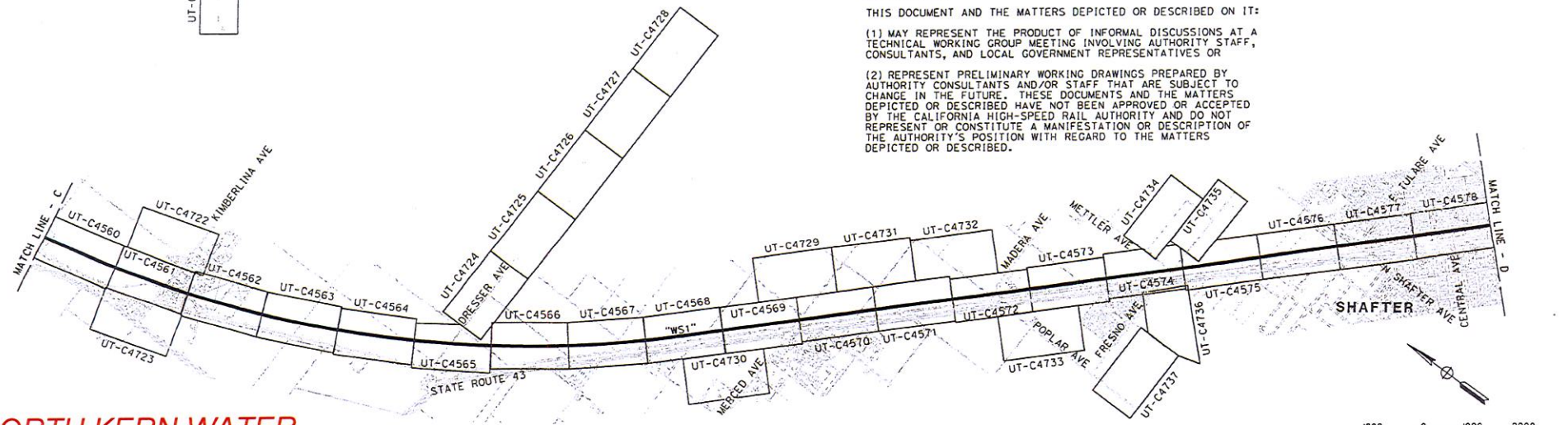


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DATE 08/08/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4
UTILITIES
COMPOSITE UTILITY PLAN
KEY MAP (SHEET 2 OF 3)

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-B0030
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SHEET NO. 7 OF 163

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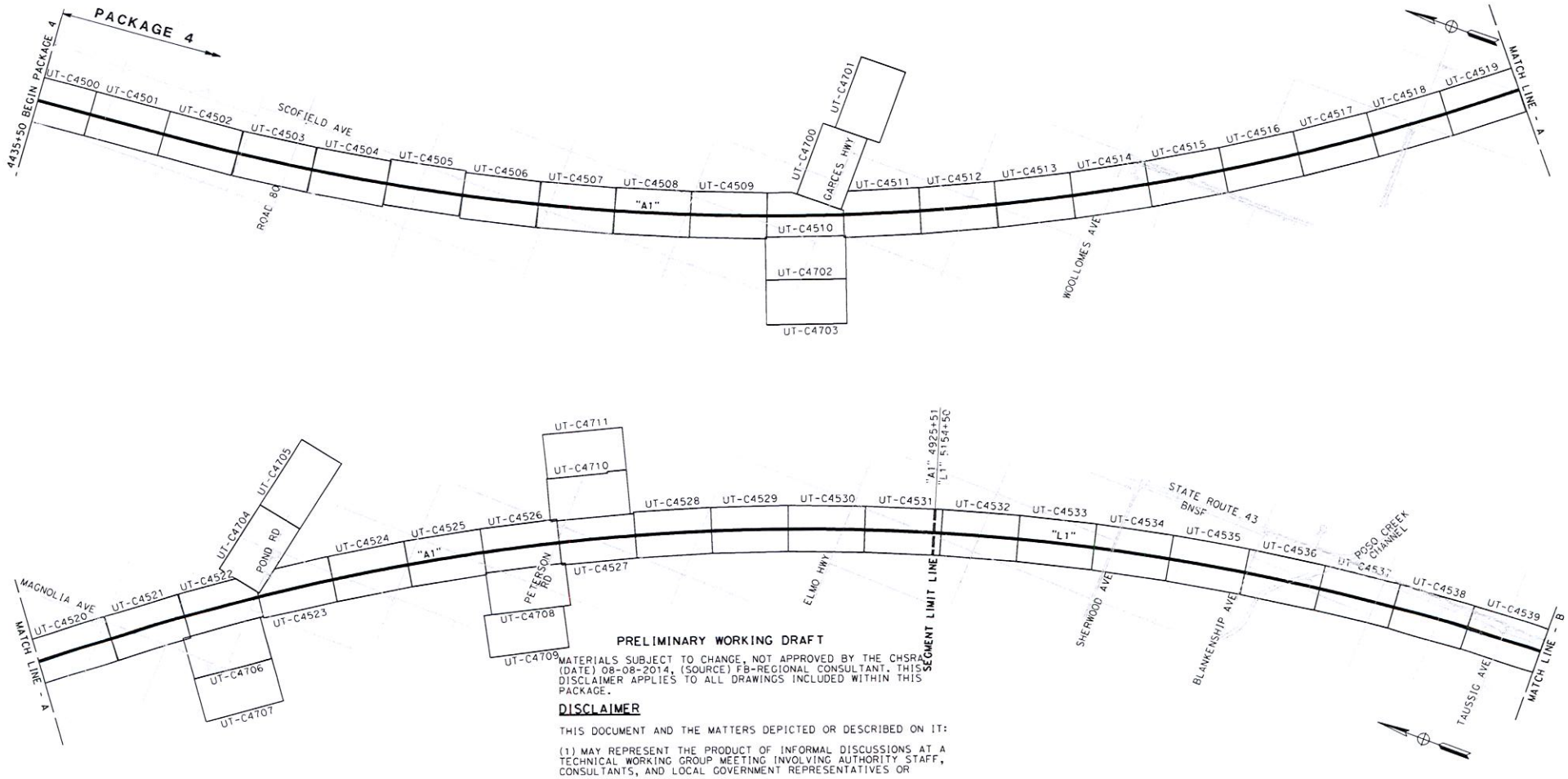


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*NORTH KERN WATER STORAGE DISTRICT*

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 08/08/14

PROPOSED PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4
UTILITIES
COMPOSITE UTILITY PLAN
KEY MAP (SHEET 1 OF 3)

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-B0029
SCALE AS SHOWN
SHEET NO. 6 OF 163

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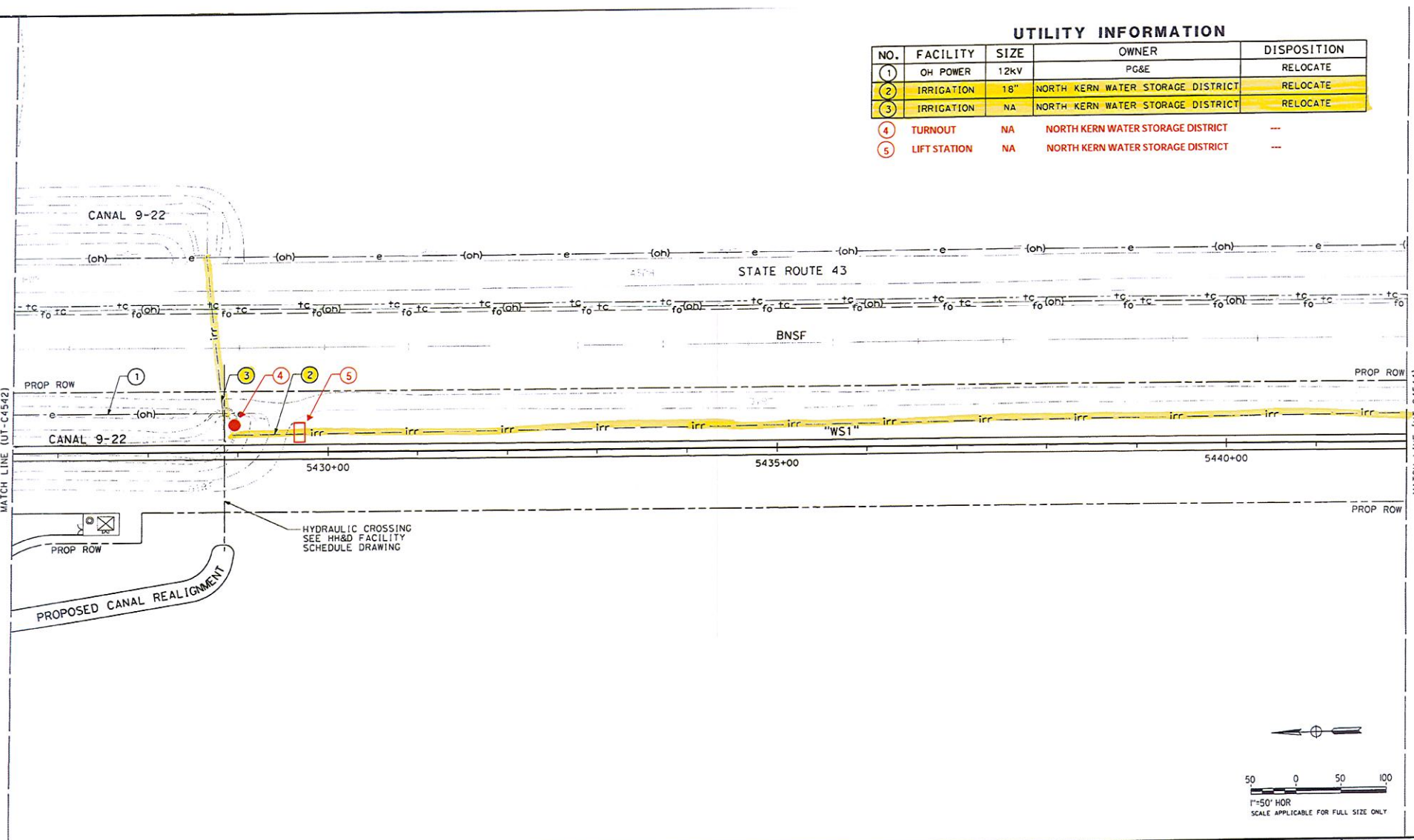
OR152801

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | IRRIGATION | 18" | NORTH KERN WATER STORAGE DISTRICT | RELOCATE |
| 3 | IRRIGATION | NA | NORTH KERN WATER STORAGE DISTRICT | RELOCATE |
| 4 | TURNOUT | NA | NORTH KERN WATER STORAGE DISTRICT | --- |
| 5 | LIFT STATION | NA | NORTH KERN WATER STORAGE DISTRICT | --- |

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IN CHARGE S. BURGES
DATE 08/08/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5426+50 TO 5442+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4543
SCALE AS SHOWN
SHEET NO. 52 OF 163

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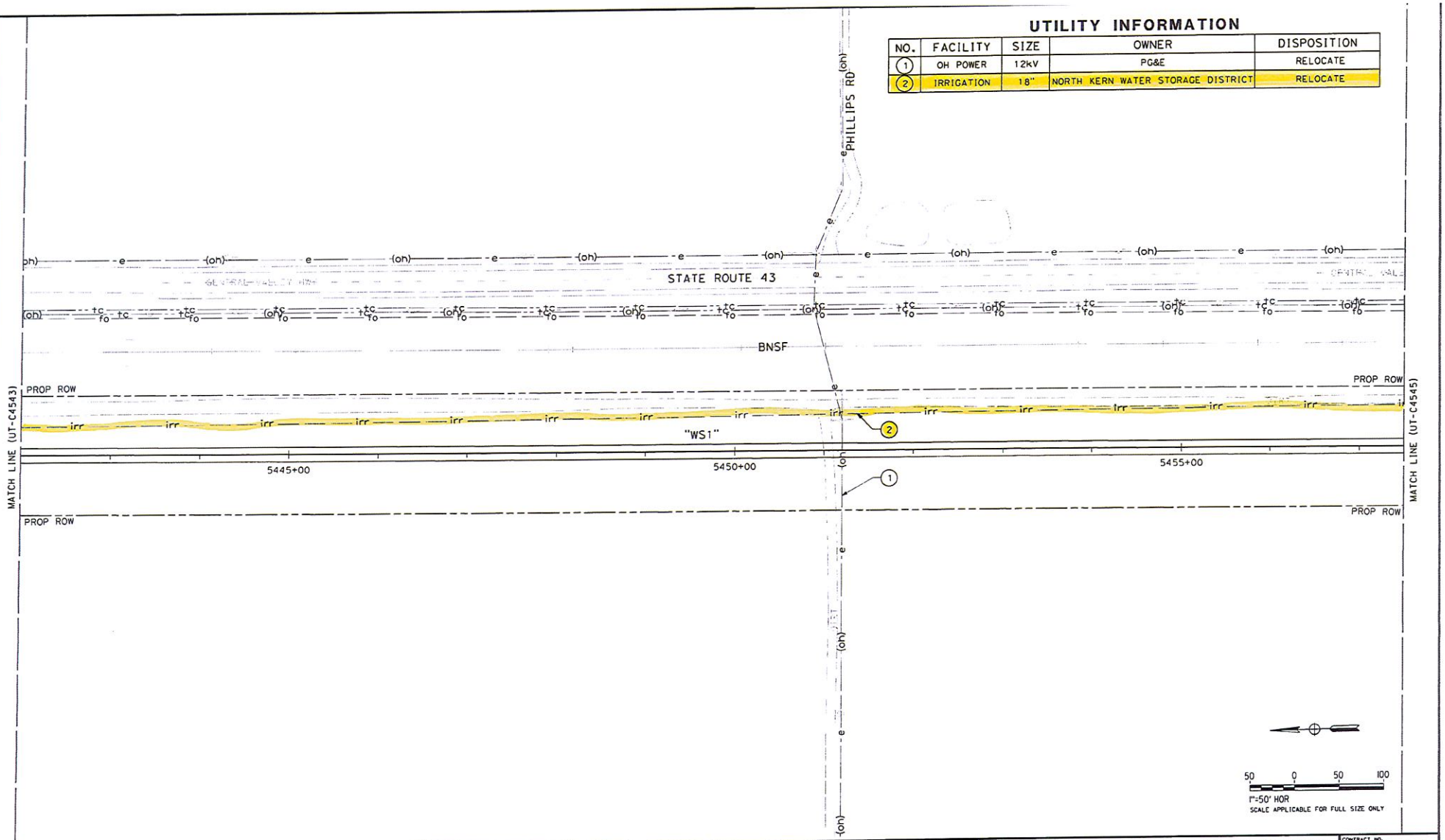
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | IRRIGATION | 18" | NORTH KERN WATER STORAGE DISTRICT | RELOCATE |




| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

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DATE 08/08/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5442+00 TO 5457+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4544
SCALE AS SHOWN
SHEET NO. 53 OF 163

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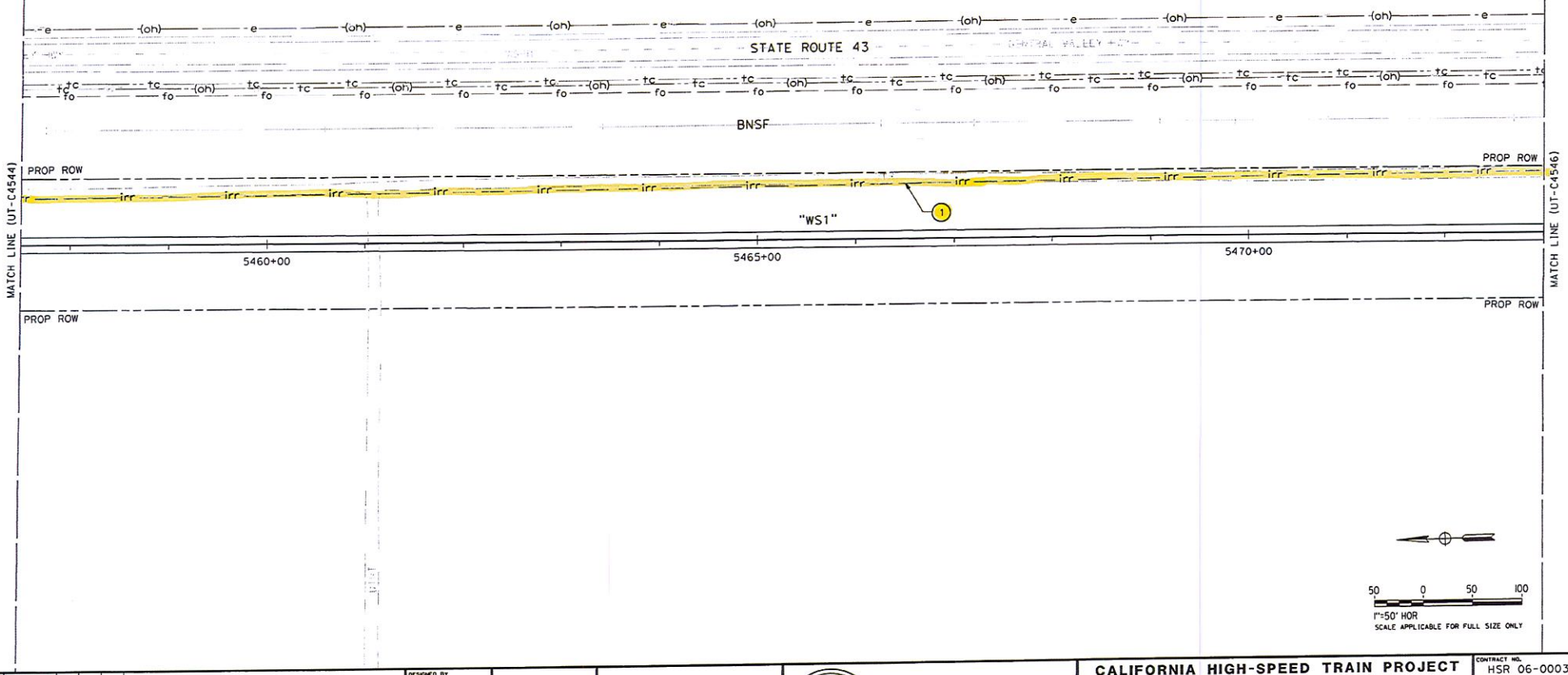
ORT52801

## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | IRRIGATION | 18" | NORTH KERN WATER STORAGE DISTRICT | RELOCATE |




| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

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DATE 08/08/14

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5457+50 TO 5473+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4545
SCALE AS SHOWN
SHEET NO. 54 OF 163

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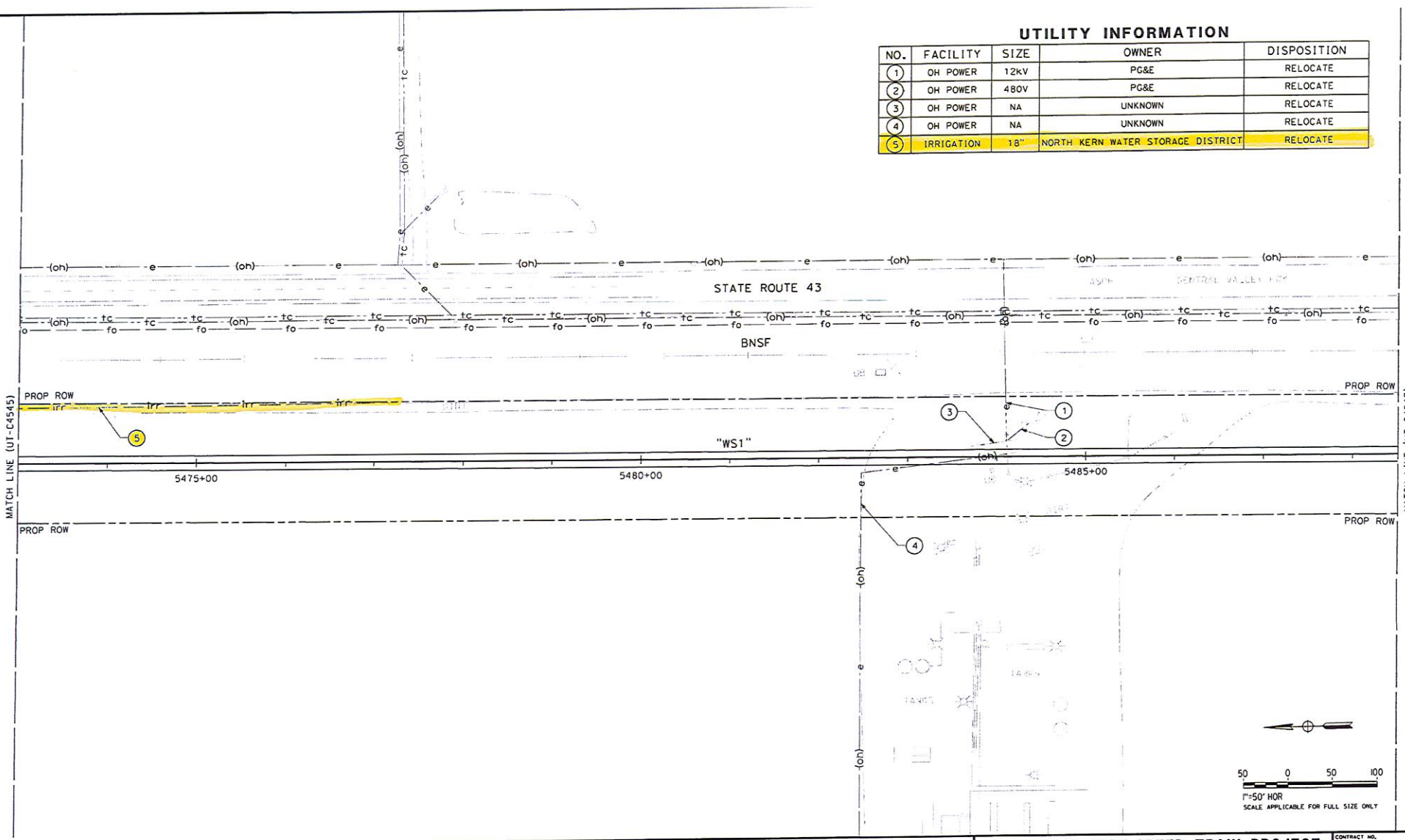
## UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|---|---|---|---|---|
| 1 | OH POWER | 12kV | PG&E | RELOCATE |
| 2 | OH POWER | 480V | PG&E | RELOCATE |
| 3 | OH POWER | NA | UNKNOWN | RELOCATE |
| 4 | OH POWER | NA | UNKNOWN | RELOCATE |
| 5 | IRRIGATION | 18" | NORTH KERN WATER STORAGE DISTRICT | RELOCATE |




| REV | DATE | BY | CHK | APP | DESCRIPTION |
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**FRESNO TO BAKERSFIELD**
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5473+00 TO 5488+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4546
SCALE AS SHOWN
SHEET NO. 55 OF 163

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